



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 119109**

**TO: Sean McGarry**  
**Location: REM-2D19/2C18**  
**Art Unit: 1635**  
**Thursday, April 08, 2004**  
**Case Serial Number: 10/002491**

**From: Paul Schulwitz**  
**Location: Biotech-Chem Library**  
**REM-1A65**  
**Phone: (571)272-2527**

**paul.schulwitz@uspto.gov**

### **Search Notes**

Examiner McGarry,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz  
Technical Information Specialist  
STIC Biotech/Chem Library  
(571)272-2527

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 8, 2004, 15:27:30 ; Search time 0.001 seconds

Title: us-10-002-491-3  
Perfect score: 2218  
Sequence: 1 acgagactctctctctcc.....aaaaaaaaaaaaaaaaaaaaa 2218

Scoring table: IDENTITY NUC

Searched: 8 seqs, 103 residues  
Total number of hits satisfying chosen parameters: 16  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : rstdb.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Database : rstdb.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	12.4	0.6	14	1	CF279993
2	11	0.5	13	1	ACCESSION:CF279993
3	10.4	0.5	12	1	ACCESSION:BO587101
4	10.4	0.5	12	1	ACCESSION:BO587288
5	10.4	0.5	12	1	ACCESSION:BO587706
6	10.4	0.5	13	1	ACCESSION:BO587768
7	10.4	0.5	13	1	ACCESSION:BO594714
8	10.4	0.5	13	1	ACCESSION:CF299609
9	9.8	0.4	14	1	ACCESSION:CF300659
10	8.4	0.4	13	1	ACCESSION:CF279993
11	8.2	0.4	13	1	ACCESSION:BO587768
12	8.2	0.4	13	1	ACCESSION:BO594714
13	7.8	0.4	13	1	ACCESSION:CF299609
14	7.2	0.3	12	1	ACCESSION:CF300659
15	7.2	0.3	12	1	ACCESSION:BO587288
16	7.2	0.3	13	1	ACCESSION:BO587706
					ACCESSION:BO587101

#### ALIGNMENTS

RESULT 1  
CF279993  
LOCUS  
DEFINITION  
14ETL--06-101.g1 Rice etiolated leaf plasmid cDNA library (14ETL)  
Oryza sativa cDNA clone 14ETL--06-101, mRNA sequence.  
ACCESSION  
CF279993  
VERSION  
CF279993.1 GI:33657379  
KEYWORDS  
EST  
SOURCE  
Oryza sativa  
ORGANISM  
Oryza sativa  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

#### REFERENCE

AUTHORS  
Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C., Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H.  
TITLE  
Large-scale Sequencing Analysis of Rice ESTs  
JOURNAL  
Unpublished (2003)  
COMMENT  
Contact: Nahm B.H.  
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, Myongji University  
Yongin, Gyeonggi, Korea  
Tel: 82 31 330 6193  
Fax: 82 31 321 6355  
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

#### FEATURES

source

1..14  
Location/Qualifiers  
/organism="Oryza sativa"  
/mol\_type="mRNA"  
/cultivar="Nackdong"  
/db\_xref="taxon:4530"  
/clone="14ETL--06-101"  
/tissue\_type="leaf"  
/dev\_stage="14 days after germination"  
/lab\_host="E.coli DH10B"  
/clone\_lib="Rice etiolated leaf plasmid cDNA library (14ETL)"  
/note="Vector: PCR4-TOPO; Site 1: EcoRI; mRNA was capped with oligoribonucleotides and then used as templates for RT-PCR."

#### Query Match

Best Local Similarity 0.6%; Score 12.4; DB 1; Length 14;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1164 AATAAAATTTTAAA 1177

DB 1 AAAAAATTTTAAA 14

#### RESULT 2

BO587101/c

LOCUS

DEFINITION  
E012350-024-011-K22-SP6 MP1Z-ADIS-024-leaf Beta vulgaris cDNA clone 024-011-K22 5-PRIME, mRNA sequence.

ACCESSION

BO587101

VERSION

BO587101.1 GI:26116683

KEYWORDS

EST.

SOURCE

Beta vulgaris

ORGANISM

Beta vulgaris

REFERENCE

AUTHORS

Herwig, R., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M., Drungowski, M., Stahl, D., Wruck, W., Menze, A., O'Brien, J., Lehrach, H. and Radelof, U.

TITLE

Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes

JOURNAL

MEDLINE

PUBMED

COMMENT

12472698

Contact: Weisshaar B

ADIS DNA core facility at MP1Z

Max-Planck-Institute for Plant Breeding Research

Carl-von-Linne Weg 10, 50829 Koeln, Germany

Fax: 00492215062851

Email: weisshaar@mpiz-koeln.mpg.de

Insert Length: 13 Std Error: 0.00

Plate: 11 row: K column: 22

Seq primer: SP6; CATACGATTAGTCACACTATAG.

Location/Qualifiers

1..13

Organism="Beta vulgaris"

/mol\_type="mRNA"

```

/cultivar="KWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:185760"
/db_xref="taxon:161934"
/clone="024-011-K22"
/tissue_type="leaf"
/lab_host="EMDH10B"
/clone_lib="MP1Z-ADIS-024-leaf"
/notes="Vector: PCWVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatztucht AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGCGTCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database:http://gabi.rzpd.de"
Query Match 0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1396 TGAAGAAGA 1406
Db 12 TGAAGAAGA 2
|||||

```

```

RESULT 3
BO587288/c
LOCUS
DEFINITION
E012340W-024-010-G19-SP6 MP1Z-ADIS-024-leaf Beta vulgaris cDNA
BO587288
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Beta vulgaris
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
1 (bases 1 to 12)
Herwig,R., Schulz,B., Weishaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
and Radelof,U.
Construction of a 'unigene' cDNA clone set by oligonucleotide
fingerprinting allows access to 25 000 potential sugar beet genes
Plant J. 32 (5), 845-857 (2002)
22362189
12472698
Contact: Weishaar B
ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
Email: weishaar@mpiz-koeln.mpg.de
Insert length: 12 Std Error: 0.00
Plate: 10 row: G column: 19
Seq primer: SP6; CATACGATTAGTGACACTATAG.
Location/Qualifiers
1..12
/organism="Beta vulgaris"
/mol_type="RNA"
/cultivar="KWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:185760"
/db_xref="taxon:161934"
/clone="024-010-G19"
/tissue_type="leaf"
/lab_host="EMDH10B"
/clone_lib="MP1Z-ADIS-024-leaf"
/notes="Vector: PCWVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatztucht AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGCGTCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database:http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 3.6;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1396 TGAAGAAGA 1407
Db 12 TGAAGAAGA 1
|||||

```

```

RESULT 4
BO587706/c
LOCUS
DEFINITION
E012340-024-010-G19-SP6 MP1Z-ADIS-024-leaf Beta vulgaris cDNA clone
024-010-G19 5-PRIME, mRNA sequence.
BO587706
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Beta vulgaris
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
1 (bases 1 to 12)
Herwig,R., Schulz,B., Weishaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
and Radelof,U.
Construction of a 'unigene' cDNA clone set by oligonucleotide
fingerprinting allows access to 25 000 potential sugar beet genes
Plant J. 32 (5), 845-857 (2002)
22362189
12472698
Contact: Weishaar B
ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
Email: weishaar@mpiz-koeln.mpg.de
Insert length: 12 Std Error: 0.00
Plate: 10 row: G column: 19
Seq primer: SP6; CATACGATTAGTGACACTATAG.
Location/Qualifiers
1..12
/organism="Beta vulgaris"
/mol_type="RNA"
/cultivar="KWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:185760"
/db_xref="taxon:161934"
/clone="024-010-G19"
/tissue_type="leaf"
/lab_host="EMDH10B"
/clone_lib="MP1Z-ADIS-024-leaf"
/notes="Vector: PCWVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatztucht AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGCGTCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database:http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 3.6;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1396 TGAAGAAGA 1407
Db 12 TGAAGAAGA 1
|||||

```

```

Kleinwanzlebener Saatztucht AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGCGTCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database:http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 3.6;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1396 TGAAGAAGA 1407
Db 12 TGAAGAAGA 1
|||||

```

```

RESULT 4
BO587706/c
LOCUS
DEFINITION
E012340-024-010-G19-SP6 MP1Z-ADIS-024-leaf Beta vulgaris cDNA clone
024-010-G19 5-PRIME, mRNA sequence.
BO587706
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Beta vulgaris
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
1 (bases 1 to 12)
Herwig,R., Schulz,B., Weishaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
and Radelof,U.
Construction of a 'unigene' cDNA clone set by oligonucleotide
fingerprinting allows access to 25 000 potential sugar beet genes
Plant J. 32 (5), 845-857 (2002)
22362189
12472698
Contact: Weishaar B
ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
Email: weishaar@mpiz-koeln.mpg.de
Insert length: 12 Std Error: 0.00
Plate: 10 row: G column: 19
Seq primer: SP6; CATACGATTAGTGACACTATAG.
Location/Qualifiers
1..12
/organism="Beta vulgaris"
/mol_type="RNA"
/cultivar="KWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:185760"
/db_xref="taxon:161934"
/clone="024-010-G19"
/tissue_type="leaf"
/lab_host="EMDH10B"
/clone_lib="MP1Z-ADIS-024-leaf"
/notes="Vector: PCWVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatztucht AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGCGTCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database:http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 3.6;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1396 TGAAGAAGA 1407
Db 12 TGAAGAAGA 1
|||||

```

```

FEATURES
source
1..12
/organism="Beta vulgaris"
/mol_type="RNA"
/cultivar="KWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:185760"
/db_xref="taxon:161934"
/clone="024-010-G19"
/tissue_type="leaf"
/lab_host="EMDH10B"
/clone_lib="MP1Z-ADIS-024-leaf"
/notes="Vector: PCWVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatztucht AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGCGTCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database:http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 3.6;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1396 TGAAGAAGA 1407
Db 12 TGAAGAAGA 1
|||||

```

```

Best Local Similarity 91.7%; Pred. No. 3.6;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1396 TGAAGAAGAA 1407
Db 12 TGAAGAAGAAAA 1

RESULT 5
BQ589768
LOCUS
DEFINITION
E012680-024-020-D03-SP6 MP1Z-ADIS-024-storage root Beta vulgaris
ACCESSION
BQ589768
VERSION
BQ589768.1 GI:26119351
KEYWORDS
EST.
SOURCE
Beta vulgaris
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
REFERENCE
1 (bases 1 to 13)
Herrig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
and Radelof,U.
Construction of a 'unigene' cDNA clone set by oligonucleotide
fingerprinting allows access to 25 000 potential sugar beet genes
Plant J. 32 (5), 845-857 (2002)
22362189
PUBMED
12472698
COMMENT
Contact: Weisshaar B
ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
Email: weisshaar@piz-koeln.mpg.de
Insert Length: 13 Std Error: 0.00
Plate: 20 row: D column: 03
Seq primer: SP6; CATACGATTAGTGACACTATAG.
FEATURES
source
1..13
Location/Qualifiers
/organism="Beta vulgaris"
/mol_type="mRNA"
/cultivar="KWS320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:190356"
/db_xref="taxon:161934"
/clone="024-020-D03"
/tissue_type="storage root"
/lab_host="EMDH108"
/clone_lib="MP1Z-ADIS-024-storage root"
/vector="PCMVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatgut AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGGCTCCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database: http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 3.4;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1581 CCACCTTCCTGAT 1592
Db 2 CCTCTTCCTGAT 13

RESULT 6
BQ594714/c

```

```

LOCUS
DEFINITION
E012441-024-024-123-SP6 MP1Z-ADIS-024-developing root Beta vulgaris
ACCESSION
BQ594714
VERSION
BQ594714.1 GI:26124297
KEYWORDS
EST.
SOURCE
Beta vulgaris
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
REFERENCE
1 (bases 1 to 13)
Herrig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
and Radelof,U.
Construction of a 'unigene' cDNA clone set by oligonucleotide
fingerprinting allows access to 25 000 potential sugar beet genes
Plant J. 32 (5), 845-857 (2002)
22362189
PUBMED
12472698
COMMENT
Contact: Weisshaar B
ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
Email: weisshaar@piz-koeln.mpg.de
Insert Length: 13 Std Error: 0.00
Plate: 24 row: I column: 23
Seq primer: SP6; CATACGATTAGTGACACTATAG.
FEATURES
source
1..13
Location/Qualifiers
/organism="Beta vulgaris"
/mol_type="mRNA"
/cultivar="KWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:192139"
/db_xref="taxon:161934"
/clone="024-024-123"
/tissue_type="developing root"
/lab_host="EMDH108"
/clone_lib="MP1Z-ADIS-024-developing root"
/vector="PCMVSPORT6; Site 1: Sali; Site 2: NotI;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatgut AG Einbeck, Germany, contact:
b.schulz@kws.de; cloning sites Sali-NotI, primer sites and
orientation:
SP6-Sali-CCACGGCTCCG-5prime-cDNA-polyA-CC-NotI-T7; Note:
Sequencing granted in the context of the GABI-Beet
Project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database: http://gabi.rzpd.de"
Query Match 0.5%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 3.4;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1188 AGTGCAGAGAA 1199
Db 12 AGAGCAGAGAA 1

RESULT 7
CF299609
LOCUS
DEFINITION
7LEAF--03-L04.g1 Rice leaf plasmid cDNA library II (7LEAF) Oryza
sativa cDNA clone 7LEAF--03-L04, mRNA sequence.
ACCESSION
CF299609
VERSION
CF299609.1 GI:33671370
KEYWORDS
EST.
SOURCE
Oryza sativa
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

```



REFERENCE 1 (bases 1 to 13)  
 AUTHORS Ehrhartoidae; Oryzae; Oryza.  
 TITLE Large-scale Sequencing Analysis of Rice ESTs  
 JOURNAL Unpublished (2003)  
 COMMENT Contact: Nahm B.H.  
 Genomics and Genetics Institute, GreenGene Biotech Inc.; Division  
 of Bioscience and Bioinformatics, Myongji University  
 Yongin, Kyeonggi, Korea  
 Tel: 82 31 330 6193  
 Fax: 82 31 321 6355  
 Email: bhnahm@bio.com, bhnahm@bio.myongji.ac.kr.

## FEATURES

source

1. .13  
 Location/Qualifiers  
 /organism="Oryza sativa"  
 /mol\_type="mRNA"  
 /cultivar="Nackdong"  
 /db\_xref="taxon:4530"  
 /clone="7LEAF--03-L04"  
 /tissue\_type="leaf"  
 /dev\_stage="7 days after germination"  
 /lab\_host="E.coli DH10B"  
 /clone\_lib="Rice leaf plasmid cDNA library II (7LEAF)"  
 /note="Vector: PCR4-TOPO; Site 1: EcoRI; mRNA was capped  
 with oligoribonucleotides and then used as templates for  
 RT-PCR."

Query Match 0.5%; Score 10.4; DB 1; Length 13;  
 Best Local Similarity 91.7%; Pred. No. 3.4;  
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1167 AAAATTTTAAAA 1178

|||||  
 1 AAAATTTTAAAA 12

## RESULT 8

LOCUS

CF300659 13 bp mRNA linear EST 15-AUG-2003  
 DEFINITION 7LEAF--05-D14.g1 Rice leaf plasmid cDNA library II (7LEAF) Oryza  
 sativa cDNA clone 7LEAF--05-D14, mRNA sequence.

ACCESSION

CF300659

VERSION

CF300659.1

KEYWORDS

EST

SOURCE

Oryza sativa

ORGANISM

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; Oryzae; Oryza.

REFERENCE 1 (bases 1 to 13)

AUTHORS Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C.,  
 Song, S.I., Kim, J.K., Kim, Y.-K., and Nahm, B.H.

TITLE Large-scale Sequencing Analysis of Rice ESTs

JOURNAL Unpublished (2003)

COMMENT Contact: Nahm B.H.  
 Genomics and Genetics Institute, GreenGene Biotech Inc.; Division  
 of Bioscience and Bioinformatics, Myongji University  
 Yongin, Kyeonggi, Korea  
 Tel: 82 31 330 6193  
 Fax: 82 31 321 6355  
 Email: bhnahm@bio.com, bhnahm@bio.myongji.ac.kr.

## FEATURES

source

1. .13  
 Location/Qualifiers  
 /organism="Oryza sativa"  
 /mol\_type="mRNA"  
 /cultivar="Nackdong"  
 /db\_xref="taxon:4530"  
 /clone="7LEAF--05-D14"  
 /tissue\_type="leaf"  
 /dev\_stage="7 days after germination"  
 /lab\_host="E.coli DH10B"  
 /clone\_lib="Rice leaf plasmid cDNA library II (7LEAF)"

/note="Vector: PCR4-TOPO; Site 1: EcoRI; mRNA was capped  
 with oligoribonucleotides and then used as templates for  
 RT-PCR."

Query Match 0.5%; Score 10.4; DB 1; Length 13;  
 Best Local Similarity 91.7%; Pred. No. 3.4;  
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1167 AAAATTTTAAAA 1178

|||||  
 1 AAAATTTTAAAA 12

## RESULT 9

LOCUS

CF279993 14 bp mRNA linear EST 14-AUG-2003  
 DEFINITION 14ETL--06-I01.g1 Rice etiolated leaf plasmid cDNA library (14ETL)  
 Oryza sativa cDNA clone 14ETL--06-I01, mRNA sequence.

ACCESSION

CF279993

VERSION

CF279993.1

KEYWORDS

EST

SOURCE

Oryza sativa

ORGANISM

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; Oryzae; Oryza.

REFERENCE 1 (bases 1 to 14)

AUTHORS Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C.,  
 Song, S.I., Kim, J.K., Kim, Y.-K., and Nahm, B.H.

TITLE Large-scale Sequencing Analysis of Rice ESTs

JOURNAL Unpublished (2003)

COMMENT Contact: Nahm B.H.  
 Genomics and Genetics Institute, GreenGene Biotech Inc.; Division  
 of Bioscience and Bioinformatics, Myongji University  
 Yongin, Kyeonggi, Korea  
 Tel: 82 31 330 6193  
 Fax: 82 31 321 6355  
 Email: bhnahm@bio.com, bhnahm@bio.myongji.ac.kr.

## FEATURES

source

1. .14  
 Location/Qualifiers  
 /organism="Oryza sativa"  
 /mol\_type="mRNA"  
 /cultivar="Nackdong"  
 /db\_xref="taxon:4530"  
 /clone="14ETL--06-I01"  
 /tissue\_type="leaf"  
 /dev\_stage="14 days after germination"  
 /lab\_host="E.coli DH10B"  
 /clone\_lib="Rice etiolated leaf plasmid cDNA library  
 (14ETL)"  
 /note="Vector: PCR4-TOPO; Site 1: EcoRI; mRNA was capped  
 with oligoribonucleotides and then used as templates for  
 RT-PCR."

Query Match 0.4%; Score 9.8; DB 1; Length 14;  
 Best Local Similarity 84.6%; Pred. No. 4.8;  
 Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 419 TCAAAATTTATTT 431

|||||  
 13 TTAATTTATTTT 1

## RESULT 10

LOCUS

BQ589768 13 bp mRNA linear EST 06-DEC-2002  
 DEFINITION E012680-024-020-D03-SP6 MP12-ADIS-024-storage root Beta vulgaris  
 cDNA clone 024-020-D03 5-PRIME, mRNA sequence.

ACCESSION

BQ589768

VERSION

BQ589768.1

KEYWORDS

EST

SOURCE

Beta vulgaris

ORGANISM

Beta vulgaris

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.

REFERENCE 1 (bases 1 to 13)  
AUTHORS Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M., Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H. and Radelof,U.

TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes

JOURNAL Plant J. 32 (5), 845-857 (2002)

MEDLINE 22362189

PUBMED 12472698

COMMENT Contact: Weisshaar B  
ADIS DNA core facility at MP1Z  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany

Fax: 00492215062851

Email: weisshaar@mpiz-koeln.mpg.de

Insert Length: 13 Std Error: 0.00

Plate: 20 row: D column: 03

Seq primer: SP6; CATACGATTAGTGACACTATAG.

Location/Qualifiers

1..13

/organism="Beta vulgaris"

/mol\_type="mRNA"

/cultivar="KWS2320 (double haploid, monogerm breeding

line)"

/db\_xref="GABI:190356"

/db\_xref="taxon:161934"

/clones="024-020-003"

/tissue\_type="storage root"

/lab\_host="EMDH10B"

/clone\_lib="MP1Z-ADIS-024-storage root"

/note="vector: pCMVSPORT6; Site 1: Sali; Site 2: NotI;

cDNA library from sugar beet, library provided by KWS

Kleinwanzlebener Saatgut AG Einbeck, Germany, contact:

b.schulz@kws.de; cloning sites Sali-NotI, primer sites and

orientation:

SP6-Sali-CCACGCGTCGCG-5prime-cDNA-polyA-CC-NotI-T7; Note:

Sequencing granted in the context of the GABI-Beet

Project, local PI: Dr. Katharina Schneider, coordinator:

Prof. Christian Jung; Sequence submission managed by

RZPD/GABI-Primary database: http://gabi.rzpd.de"

Query Match 0.4%; Score 8.4; DB 1; Length 13;

Best Local Similarity 90.0%; Pred. No. 11;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1487 TCAAGAGAG 1496

Db 12 TCAAGAGAG 3

RESULT 11

BQ594714

LOCUS 13 bp mRNA linear EST 06-DEC-2002

DEFINITION E012441-024-024-I23-SP6 MP1Z-ADIS-024-developing root Beta vulgaris

cDNA clone 024-024-I23 5-PRIME, mRNA sequence.

ACCESSION BQ594714

VERSION BQ594714.1 GI:26124297

KEYWORDS EST.

SOURCE Beta vulgaris

ORGANISM Beta vulgaris

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

Caryophyllales; Amaranthaceae; Beta.

REFERENCE 1 (bases 1 to 13)

AUTHORS Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,

Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.

and Radelof,U.

Construction of a 'unigene' cDNA clone set by oligonucleotide

fingerprinting allows access to 25 000 potential sugar beet genes

Plant J. 32 (5), 845-857 (2002)

## MEDLINE

PUBMED

COMMENT

ADIS DNA core facility at MP1Z

Max-Planck-Institute for Plant Breeding Research

Carl-von-Linne Weg 10, 50829 Koeln, Germany

Fax: 00492215062851

Email: weisshaar@mpiz-koeln.mpg.de

Insert Length: 13 Std Error: 0.00

Plate: 24 row: I column: 23

Seq primer: SP6; CATACGATTAGTGACACTATAG.

Location/Qualifiers

1..13

/organism="Beta vulgaris"

/mol\_type="mRNA"

/cultivar="KWS2320 (double haploid, monogerm breeding

line)"

/db\_xref="GABI:192139"

/db\_xref="taxon:161934"

/clones="024-024-I23"

/tissue\_type="developing root"

/lab\_host="EMDH10B"

/clone\_lib="MP1Z-ADIS-024-developing root"

/note="vector: pCMVSPORT6; Site 1: Sali; Site 2: NotI;

cDNA library from sugar beet, library provided by KWS

Kleinwanzlebener Saatgut AG Einbeck, Germany, contact:

b.schulz@kws.de; cloning sites Sali-NotI, primer sites and

orientation:

SP6-Sali-CCACGCGTCGCG-5prime-cDNA-polyA-CC-NotI-T7; Note:

Sequencing granted in the context of the GABI-Beet

Project, local PI: Dr. Katharina Schneider, coordinator:

Prof. Christian Jung; Sequence submission managed by

RZPD/GABI-Primary database: http://gabi.rzpd.de"

Query Match 0.4%; Score 8.2; DB 1; Length 13;

Best Local Similarity 76.9%; Pred. No. 12;

Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 258 TTCTTCGGACAT 270

Db 1 TTCTTCGGCTT 13

RESULT 12

CF299609/c

LOCUS 13 bp mRNA linear EST 15-AUG-2003

DEFINITION 7LEAF-03-104-91 Rice leaf plasmid cDNA library II (7LEAF) Oryza

sativa cDNA clone 7LEAF--03-L04, mRNA sequence.

ACCESSION CF299609

VERSION CF299609.1 GI:33671370

KEYWORDS EST.

SOURCE Oryza sativa

ORGANISM Oryza sativa

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

Erhartoideae; Oryzaceae; Oryza.

REFERENCE 1 (bases 1 to 13)

AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,

Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.

Large-scale Sequencing Analysis of Rice ESTs

Unpublished (2003)

TITLE

JOURNAL

COMMENT Contact: Nahm B.H.

Genomics and Genetics Institute, GreenGene Biotech Inc.; Division

of Bioscience and Bioinformatics, Myongji University

Yongin, Kyeonggi, Korea

Tel: 82 31 330 6193

Fax: 82 31 321 6355

Email: bnhahm@gbio.com, bnhahm@bio.myongji.ac.kr.

Location/Qualifiers

1..13

/organism="Oryza sativa"

/mol\_type="mRNA"

/cultivar="Nackdong"

22362189

12472698

Contact: Weisshaar B

ADIS DNA core facility at MP1Z

Max-Planck-Institute for Plant Breeding Research

Carl-von-Linne Weg 10, 50829 Koeln, Germany

Fax: 00492215062851

Email: weisshaar@mpiz-koeln.mpg.de

Insert Length: 13 Std Error: 0.00

Plate: 24 row: I column: 23

Seq primer: SP6; CATACGATTAGTGACACTATAG.

Location/Qualifiers

1..13

/organism="Beta vulgaris"

/mol\_type="mRNA"

/cultivar="KWS2320 (double haploid, monogerm breeding

line)"

/db\_xref="GABI:192139"

/db\_xref="taxon:161934"

/clones="024-024-I23"

/tissue\_type="developing root"

/lab\_host="EMDH10B"

/clone\_lib="MP1Z-ADIS-024-developing root"

/note="vector: pCMVSPORT6; Site 1: Sali; Site 2: NotI;

cDNA library from sugar beet, library provided by KWS

Kleinwanzlebener Saatgut AG Einbeck, Germany, contact:

b.schulz@kws.de; cloning sites Sali-NotI, primer sites and

orientation:

SP6-Sali-CCACGCGTCGCG-5prime-cDNA-polyA-CC-NotI-T7; Note:

Sequencing granted in the context of the GABI-Beet

Project, local PI: Dr. Katharina Schneider, coordinator:

Prof. Christian Jung; Sequence submission managed by

RZPD/GABI-Primary database: http://gabi.rzpd.de"

Query Match 0.4%; Score 8.2; DB 1; Length 13;

Best Local Similarity 76.9%; Pred. No. 12;

Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 258 TTCTTCGGACAT 270

Db 1 TTCTTCGGCTT 13

RESULT 12

CF299609/c

LOCUS 13 bp mRNA linear EST 15-AUG-2003

DEFINITION 7LEAF-03-104-91 Rice leaf plasmid cDNA library II (7LEAF) Oryza

sativa cDNA clone 7LEAF--03-L04, mRNA sequence.

ACCESSION CF299609

VERSION CF299609.1 GI:33671370

KEYWORDS EST.

SOURCE Oryza sativa

ORGANISM Oryza sativa

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

Erhartoideae; Oryzaceae; Oryza.

REFERENCE 1 (bases 1 to 13)

AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,

Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.

Large-scale Sequencing Analysis of Rice ESTs

Unpublished (2003)

TITLE

JOURNAL

COMMENT Contact: Nahm B.H.

Genomics and Genetics Institute, GreenGene Biotech Inc.; Division

of Bioscience and Bioinformatics, Myongji University

Yongin, Kyeonggi, Korea

Tel: 82 31 330 6193

Fax: 82 31 321 6355

Email: bnhahm@gbio.com, bnhahm@bio.myongji.ac.kr.

Location/Qualifiers

1..13

/organism="Oryza sativa"

/mol\_type="mRNA"

/cultivar="Nackdong"



Drungowski, M., Stahl, D., Wruck, W., Menze, A., O'Brien, J., Lehrach, H. and Radelof, U.  
Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes  
Plant J. 32 (5), 845-857 (2002)

TITLE  
JOURNAL  
MEDLINE  
PUBMED  
COMMENT

Contact: Weishaar B  
ADIS DNA core facility at MPZ  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weishaar@piz-koeln.mpg.de  
Insert Length: 12 Std Error: 0.00  
Plate: 10 row: G column: 19  
Seq primer: SP6; CATACGATTAGTGACACTATAG.

FEATURES  
source

```
1. 12
  Location/Qualifiers
    1. 12
      /organism="Beta vulgaris"
      /mol_type="mRNA"
      /cultivar="KWS2320 (double haploid, monogerm breeding line)"
      /db_xref="GABI:185160"
      /db_xref="taxon:161934"
      /clone="024-010-G19"
      /tissue_type="leaf"
      /lab_host="EMDH10B"
      /clone_lib="MPZ-ADIS-024-leaf"
      /note="Vector: PCMVSPORT6; Site 1: Sali; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinwanzlebener Saatucht AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites Sali-NotI, primer sites and orientation:
      SP6-Sali-CCACGCGTCGCG-Sprime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database:http://gabi.rzpd.de"
```

Query Match 0.3%; Score 7.2; DB 1; Length 12;

Best Local Similarity 75.0%; Pred. No. 17;

Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1803 TTTTCTCTCTCA 1814

DB 1 TTTTCTCTTCCA 12

RESULT 16

BQ587101  
LOCUS  
DEFINITION  
E012350-024-011-K22-SP6 MPZ-ADIS-024-leaf Beta vulgaris cDNA clone  
024-011-K22 5-PRIME, mRNA sequence.

QY 1803 TTTTCTCTCTCA 1814

DB 1 TTTTCTCTTCCA 12

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

COMMENT

Contact: Weishaar B  
ADIS DNA core facility at MPZ  
Max-Planck-Institute for Plant Breeding Research

Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weishaar@piz-koeln.mpg.de  
Insert Length: 13 Std Error: 0.00  
Plate: 11 row: K column: 22  
Seq primer: SP6; CATACGATTAGTGACACTATAG.

FEATURES  
source

```
1. 13
  Location/Qualifiers
    1. 13
      /organism="Beta vulgaris"
      /mol_type="mRNA"
      /cultivar="KWS2320 (double haploid, monogerm breeding line)"
      /db_xref="GABI:185760"
      /db_xref="taxon:161934"
      /clone="024-011-K22"
      /tissue_type="leaf"
      /lab_host="EMDH10B"
      /clone_lib="MPZ-ADIS-024-leaf"
      /note="Vector: PCMVSPORT6; Site 1: Sali; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinwanzlebener Saatucht AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites Sali-NotI, primer sites and orientation:
      SP6-Sali-CCACGCGTCGCG-Sprime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database:http://gabi.rzpd.de"
```

Query Match 0.3%; Score 7.2; DB 1; Length 13;

Best Local Similarity 75.0%; Pred. No. 15;

Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2026 TGTACTTCAAT 2037

DB 2 TCTTCTTCCAT 13

Search completed: April 8, 2004, 15:27:30

Job time : 0.001 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 8, 2004, 15:19:50 ; Search time 3 Seconds  
(without alignments)

2.835 Million cell updates/sec

Title: us-10-002-491-3

Perfect score: 2218

Sequence: 1 acgagatctctctctctcc.....aaaaaaaaaaaaaaaaaaaaa 2218

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 0.5

Searched: 118 seqs, 1917 residues

Total number of hits satisfying chosen parameters: 236

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 125 summaries

Database : rgedb.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	23.6	1.1	29	1 AR096037	ACCESSION:AR096037
2	23.6	1.1	29	1 AR217415	ACCESSION:AR217415
3	19	0.9	23	1 AR139022	ACCESSION:AR139022
4	16.8	0.8	21	1 AX770644	ACCESSION:AX770644
5	14.4	0.6	16	1 AX255622	ACCESSION:AX255622
6	14.4	0.6	16	1 AX255665	ACCESSION:AX255665
7	14.4	0.6	16	1 AX804490	ACCESSION:AX804490
8	14.4	0.6	17	1 AR046169	ACCESSION:AR046169
9	14.4	0.6	17	1 AR046171	ACCESSION:AR046171
10	14.4	0.6	17	1 E04342	ACCESSION:E04342
11	14.4	0.6	17	1 I53221	ACCESSION:I53221
12	14.4	0.6	17	1 I53223	ACCESSION:I53223
13	14.4	0.6	17	1 AR188875	ACCESSION:AR188875
14	14.4	0.6	17	1 AR324728	ACCESSION:AR324728
15	14.4	0.6	17	1 AR329508	ACCESSION:AR329508
16	14.4	0.6	17	1 AX475416	ACCESSION:AX475416
17	14.4	0.6	17	1 AX475417	ACCESSION:AX475417
18	14.4	0.6	17	1 AX672442	ACCESSION:AX672442
19	14.4	0.6	17	1 AX723944	ACCESSION:AX723944
20	14.4	0.6	17	1 AX730352	ACCESSION:AX730352
21	14.4	0.6	17	1 AX733378	ACCESSION:AX733378
22	14.4	0.6	17	1 AX737466	ACCESSION:AX737466
23	14.4	0.6	17	1 AX761145	ACCESSION:AX761145
24	14.4	0.6	17	1 BD201129	ACCESSION:BD201129
25	14.4	0.6	17	1 BD201130	ACCESSION:BD201130
26	14.4	0.6	17	1 BD201674	ACCESSION:BD201674
27	14	0.6	17	1 AX731670	ACCESSION:AX731670
28	13.8	0.6	17	1 AR046173	ACCESSION:AR046173
29	13.8	0.6	17	1 AR046239	ACCESSION:AR046239
30	13.8	0.6	17	1 AR046241	ACCESSION:AR046241
31	13.8	0.6	17	1 BD257498	ACCESSION:BD257498
32	13.8	0.6	17	1 I53225	ACCESSION:I53225
33	13.8	0.6	17	1 I53231	ACCESSION:I53231

34	13.8	0.6	17	1 I53293	ACCESSION:I53293
35	13.8	0.6	17	1 AR186750	ACCESSION:AR186750
36	13.8	0.6	17	1 AR187077	ACCESSION:AR187077
37	13.8	0.6	17	1 AR187218	ACCESSION:AR187218
38	13.8	0.6	17	1 AR258893	ACCESSION:AR258893
39	13.8	0.6	17	1 AR323381	ACCESSION:AR323381
40	13.8	0.6	17	1 AR323687	ACCESSION:AR323687
41	13.8	0.6	17	1 AR323828	ACCESSION:AR323828
42	13.8	0.6	17	1 AR327770	ACCESSION:AR327770
43	13.8	0.6	17	1 AR329509	ACCESSION:AR329509
44	13.8	0.6	17	1 AR401952	ACCESSION:AR401952
45	13.8	0.6	17	1 AX216849	ACCESSION:AX216849
46	13.8	0.6	17	1 AX217049	ACCESSION:AX217049
47	13.8	0.6	17	1 AX227475	ACCESSION:AX227475
48	13.8	0.6	17	1 AX382377	ACCESSION:AX382377
49	13.8	0.6	17	1 AX422007	ACCESSION:AX422007
50	13.8	0.6	17	1 AX422138	ACCESSION:AX422138
51	13.8	0.6	17	1 AX422613	ACCESSION:AX422613
52	13.8	0.6	17	1 AX724979	ACCESSION:AX724979
53	13.8	0.6	17	1 AX728845	ACCESSION:AX728845
54	13.8	0.6	17	1 AX732535	ACCESSION:AX732535
55	13.8	0.6	17	1 AX732917	ACCESSION:AX732917
56	13.8	0.6	17	1 AX733541	ACCESSION:AX733541
57	13.8	0.6	17	1 AX736911	ACCESSION:AX736911
58	13.8	0.6	17	1 AX757371	ACCESSION:AX757371
59	13.8	0.6	17	1 AX757539	ACCESSION:AX757539
60	13.8	0.6	17	1 BD067452	ACCESSION:BD067452
61	13.8	0.6	17	1 BD187337	ACCESSION:BD187337
62	13.8	0.6	17	1 BD200615	ACCESSION:BD200615
63	13.8	0.6	17	1 BD201502	ACCESSION:BD201502
64	13.4	0.6	15	1 A88288	ACCESSION:A88288
65	13.4	0.6	15	1 A90255	ACCESSION:A90255
66	13.4	0.6	15	1 I35238	ACCESSION:I35238
67	13.4	0.6	15	1 BD065801	ACCESSION:BD065801
68	13.4	0.6	15	1 BD104846	ACCESSION:BD104846
69	13	0.6	14	1 A45189	ACCESSION:A45189
70	13	0.6	14	1 A88289	ACCESSION:A88289
71	13	0.6	14	1 A88290	ACCESSION:A88290
72	13	0.6	14	1 A88950	ACCESSION:A88950
73	13	0.6	14	1 A90256	ACCESSION:A90256
74	13	0.6	14	1 A90257	ACCESSION:A90257
75	13	0.6	14	1 AR202832	ACCESSION:AR202832
76	13	0.6	14	1 BD065802	ACCESSION:BD065802
77	13	0.6	14	1 BD065803	ACCESSION:BD065803
78	13	0.6	14	1 BD066463	ACCESSION:BD066463
79	13	0.6	15	1 AR033698	ACCESSION:AR033698
80	13	0.6	15	1 AR113520	ACCESSION:AR113520
81	13	0.6	15	1 AR133937	ACCESSION:AR133937
82	13	0.6	15	1 I57927	ACCESSION:I57927
83	13	0.6	15	1 BD207431	ACCESSION:BD207431
84	12.8	0.6	16	1 BD233115	ACCESSION:BD233115
85	12.8	0.6	16	1 AR234367	ACCESSION:AR234367
86	12.8	0.6	16	1 AR258885	ACCESSION:AR258885
87	12.8	0.6	16	1 AX007669	ACCESSION:AX007669
88	12.8	0.6	16	1 AX382369	ACCESSION:AX382369
89	12.4	0.6	14	1 A88287	ACCESSION:A88287
90	12.4	0.6	14	1 A90254	ACCESSION:A90254
91	12.4	0.6	14	1 A90259	ACCESSION:A90259
92	12.4	0.6	14	1 AR030008	ACCESSION:AR030008
93	12.4	0.6	14	1 BD065800	ACCESSION:BD065800
94	12.4	0.6	15	1 A07231	ACCESSION:A07231
95	12.4	0.6	15	1 A07233	ACCESSION:A07233
96	12.4	0.6	15	1 AR041376	ACCESSION:AR041376
97	12.4	0.6	15	1 AR041405	ACCESSION:AR041405
98	12.4	0.6	15	1 AR041406	ACCESSION:AR041406
99	12.4	0.6	15	1 AR041929	ACCESSION:AR041929
100	12.4	0.6	15	1 AR041930	ACCESSION:AR041930
101	12.4	0.6	15	1 AR045279	ACCESSION:AR045279
102	12.4	0.6	15	1 AR056019	ACCESSION:AR056019
103	12.4	0.6	15	1 AR074211	ACCESSION:AR074211
104	12.4	0.6	15	1 AR113777	ACCESSION:AR113777
105	12.4	0.6	15	1 AR132205	ACCESSION:AR132205
106	12.4	0.6	15	1 AR132206	ACCESSION:AR132206

C 107 12.4 0.6 15 1 AR132207  
 C 108 12.4 0.6 15 1 BD246789  
 C 109 12.4 0.6 15 1 I20453  
 C 110 12.4 0.6 15 1 I20453  
 C 111 12.4 0.6 15 1 I20453  
 C 112 12.4 0.6 15 1 AR209754  
 C 113 12.4 0.6 15 1 AX232573  
 C 114 12.4 0.6 15 1 AX333116  
 C 115 12.4 0.6 15 1 AX333116  
 C 116 12.4 0.6 15 1 AX333116  
 C 117 12.4 0.6 15 1 AX333116  
 C 118 12.4 0.6 15 1 AX333116  
 C 119 12.4 0.6 15 1 AX333116  
 C 120 10.6 0.5 29 1 AR96037  
 C 121 10.6 0.5 29 1 AR96037  
 C 122 10.4 0.5 17 1 BD257498  
 C 123 10.4 0.5 21 1 AX70644  
 C 124 10.2 0.5 15 1 I35238  
 C 125 10.2 0.5 15 1 AR133937

## ALIGNMENTS

RESULT 1  
 LOCUS AR096037 29 bp DNA linear PAT 08-SEP-2000  
 DEFINITION Sequence 3 from patent US 6005086.  
 ACCESSION AR096037  
 VERSION AR096037.1 GI:10024472  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 29)  
 AUTHORS Evans, R.M., Forman, B.M. and Weinberger, C.A.  
 TITLE Farnesoid activated receptor polypeptides, and nucleic acid encoding the same  
 JOURNAL Patent: US 6005086-A 3 21-DEC-1999;  
 FEATURES  
 source Location/Qualifiers  
 1..29 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.1%; Score 23.6; DB 1; Length 29;  
 Best Local Similarity 82.1%; Pred. No. 0.5;  
 Matches 23; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 780 ACCTGTGAGGGGTGTAAGGTTCTTCA 807  
 |||||  
 Db 1 ACCTGTGAGGGGTGTAAGGTTCTTCA 28

RESULT 2  
 LOCUS AR217415 29 bp DNA linear PAT 25-SEP-2002  
 DEFINITION Sequence 3 from patent US 6416957.  
 ACCESSION AR217415  
 VERSION AR217415.1 GI:233317106  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 29)  
 AUTHORS Evans, R.M., Forman, B.M. and Weinberger, C.A.  
 TITLE Method for modulating process mediated by farnesoid activated receptors  
 JOURNAL Patent: US 6416957-A 3 09-JUL-2002;  
 FEATURES  
 source Location/Qualifiers  
 1..29 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.1%; Score 23.6; DB 1; Length 29;  
 Best Local Similarity 82.1%; Pred. No. 0.5;  
 Matches 23; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 780 ACCTGTGAGGGGTGTAAGGTTCTTCA 807  
 |||||  
 Db 1 ACCTGTGAGGGGTGTAAGGTTCTTCA 28

RESULT 3  
 LOCUS AR139022 23 bp DNA linear PAT 16-JUN-2001  
 DEFINITION Sequence 4 from patent US 6200802.  
 ACCESSION AR139022  
 VERSION AR139022.1 GI:14481367  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 23)  
 AUTHORS Greene, M.F. and Blumberg, B.  
 TITLE Human peroxisome proliferator activated receptor gamma: compositions and methods  
 JOURNAL Patent: US 6200802-A 4 13-MAR-2001;  
 FEATURES  
 source Location/Qualifiers  
 1..23 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 0.9%; Score 19; DB 1; Length 23;  
 Best Local Similarity 69.6%; Pred. No. 3.7;  
 Matches 16; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 783 TGTGAGGGGTGTAAGGTTCTT 805  
 |||||  
 Db 1 TGTGAGGGGTGTAAGGTTCTT 23

RESULT 4  
 LOCUS AX770644/c 21 bp DNA linear PAT 02-JUL-2003  
 DEFINITION Sequence 3 from Patent WO03033736.  
 ACCESSION AX770644  
 VERSION AX770644.1 GI:32437947  
 KEYWORDS  
 SOURCE Oryza sp.  
 ORGANISM Oryza sp.

REFERENCE 1  
 AUTHORS Sardesai, N., Kumar, A., Nair, S. and Mohan, M.  
 TITLE Fine mapping and application of dna markers linked to a gall midge resistance gene for marker-aided selection in rice  
 JOURNAL Patent: WO 03033736-A 3 24-APR-2003;  
 FEATURES International Centre for Genetic Engineering and Biotechnology (IN) Location/Qualifiers  
 1..21 /organism="Oryza sp."  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:52841"

Query Match 0.8%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 9.8;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1396 TGAAGAAGAATTGGAAT 1415  
 |||||  
 Db 21 TTGAAGAAGAATTGGAAT 2

RESULT 5  
 AX255622

```

LOCUS      AX255622                      16 bp      RNA      PAT 10-OCT-2001
DEFINITION Sequence 43 from Patent WO0170982.
ACCESSION  AX255622
VERSION     AX255622.1 GI:16074678
SOURCE      synthetic construct
            synthetic construct
            artificial sequences.
ORGANISM    Beger, C., Barber, J. and Wong-Staal, F.
            Brca-1 regulators and methods of use
            Patent: WO 0170982-A 43 27-SEP-2001;
            Immusol Incorporated (US) ; Beger, Carmela (DE)
FEATURES    Location/Qualifiers
             1..16
             /organism="synthetic construct"
             /mol_type="unassigned RNA"
             /db_xref="taxon:32630"
             /note="Synthetic oligonucleotide"
Query Match      0.6%; Score 14.4; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 24;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      1358 TTTCATAAAGAACTT 1373
Db      1 TTACAATAAGAACTT 16

RESULT 6
AX255665
LOCUS      AX255665                      16 bp      DNA      PAT 10-OCT-2001
DEFINITION Sequence 86 from Patent WO0170982.
ACCESSION  AX255665
VERSION     AX255665.1 GI:16074721
SOURCE      Homo sapiens (human)
            Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    1
AUTHORS      Beger, C., Barber, J. and Wong-Staal, F.
            Brca-1 regulators and methods of use
            Patent: WO 0170982-A 86 27-SEP-2001;
            Immusol Incorporated (US) ; Beger, Carmela (DE)
FEATURES    Location/Qualifiers
             1..16
             /organism="Homo sapiens"
             /mol_type="unassigned DNA"
             /db_xref="taxon:9606"
Query Match      0.6%; Score 14.4; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 24;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      1358 TTTCATAAAGAACTT 1373
Db      1 TTACAATAAGAACTT 16

RESULT 7
AX804490
LOCUS      AX804490                      16 bp      DNA      PAT 25-NOV-2003
DEFINITION Sequence 658 from Patent WO03060160.
ACCESSION  AX804490
VERSION     AX804490.1 GI:38521631
SOURCE      Oreochromis niloticus (Nile tilapia)
            Oreochromis niloticus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
            Acanthopterygii; Acanthopterygii; Percormorpha; Perciformes;
            Labroidae; Cichlidae; Oreochromis.

```

```

REFERENCE    1
AUTHORS      Lie, Y., Slettan, A., Høyrum, M. and Lingaas, F.
            Verification of food origin based on nucleic acid pattern
            recognition
            Patent: WO 03060160-A 658 24-JUL-2003;
            Genomar ASA (NO)
FEATURES    Location/Qualifiers
             1..16
             /organism="Oreochromis niloticus"
             /mol_type="unassigned DNA"
             /db_xref="taxon:8128"
Query Match      0.6%; Score 14.4; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 24;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      849 GGGGGCAACTGTGTGA 864
Db      1 GGGGGCAACTGTGTGA 16

RESULT 8
AR046169/c
LOCUS      AR046169                      17 bp      DNA      PAT 29-SEP-1999
DEFINITION Sequence 962 from patent US 5817796.
ACCESSION  AR046169
VERSION     AR046169.1 GI:5967634
SOURCE      Unknown.
            Unknown.
            Unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
            C-myb ribozymes having 2'-5'-linked adenylylate residues
            Patent: US 5817796-A 962 06-OCT-1998;
            Location/Qualifiers
FEATURES    Location/Qualifiers
             1..17
             /organism="unknown"
             /mol_type="unassigned DNA"
Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      1454 TTTTATAAAGTATT 1469
Db      17 TTTTATAAAGTATT 2

RESULT 9
AR046171/c
LOCUS      AR046171                      17 bp      DNA      PAT 29-SEP-1999
DEFINITION Sequence 964 from patent US 5817796.
ACCESSION  AR046171
VERSION     AR046171.1 GI:5967636
SOURCE      Unknown.
            Unknown.
            Unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
            C-myb ribozymes having 2'-5'-linked adenylylate residues
            Patent: US 5817796-A 964 06-OCT-1998;
            Location/Qualifiers
FEATURES    Location/Qualifiers
             1..17
             /organism="unknown"
             /mol_type="unassigned DNA"
Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      1454 TTTTATAAAGTATT 1469
Db      17 TTTTATAAAGTATT 2

```

```

Db      16 TTTTATAAACTATT 1
|||||
RESULT 10
E04342      17 bp      DNA      linear      PAT 29-SEP-1997
LOCUS      E04342
DEFINITION      Linker.
ACCESSION      E04342
VERSION      E04342.1 GI:2172545
SOURCE      JP 1993041992-A/5.
ORGANISM      synthetic construct
              artificial sequences.
REFERENCE      1 (bases 1 to 17)
AUTHORS      Shiroza, A.
TITLE      NEW VECTOR
JOURNAL      Patent: JP 1993041992-A 5 23-FEB-1993;
              OJI KOONSUTAAC KK, OJI PAPER CO LTD
COMMENT      OS Artificial gene
              OC Artificial sequence; Genes.
              PN JP 1993041992-A/5
              PD 23-FEB-1993
              PF 24-OCT-1991 JP 1991277708
              PR 24-OCT-1990 JP 90P 284408
              PI SHIROZA AKINORI
              PC C12N15/70.C12N15/74;
              CC strandedness: Single;
              CC topology: linear;
              CC hypothetical: No;
              CC anti-sense: No.
FEATURES      source
              1..17
              /organism="synthetic construct"
              /mol_type="genomic DNA"
              /db_xref="taxon:32630"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1293 GAAGACCATGATTCCT 1308
|||||
Db      2 GAAGATCAGATTCCT 17

RESULT 11
I53221/c      17 bp      DNA      linear      PAT 07-OCT-1997
LOCUS      I53221
DEFINITION      Sequence 962 from patent US 5646042.
ACCESSION      I53221
VERSION      I53221.1 GI:2474424
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 17)
AUTHORS      Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE      C-myb targeted ribozymes
JOURNAL      Patent: US 5646042-A 962 08-JUL-1997;
              Location/Qualifiers
FEATURES      source
              1..17
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1454 TTTTATAAACTATT 1469
|||||
Db      17 TTTTATAAACTATT 2

RESULT 12
I53223/c      17 bp      DNA      linear      PAT 07-OCT-1997
LOCUS      I53223
DEFINITION      Sequence 964 from patent US 5646042.
ACCESSION      I53223
VERSION      I53223.1 GI:2474426
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 17)
AUTHORS      Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE      C-myb targeted ribozymes
JOURNAL      Patent: US 5646042-A 964 08-JUL-1997;
              Location/Qualifiers
FEATURES      source
              1..17
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1454 TTTTATAAACTATT 1469
|||||
Db      16 TTTTATAAACTATT 1

RESULT 13
ARI88875      17 bp      DNA      linear      PAT 20-APR-2002
LOCUS      ARI88875
DEFINITION      Sequence 4363 from patent US 6346398.
ACCESSION      ARI88875
VERSION      ARI88875.1 GI:20234840
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 17)
AUTHORS      Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
TITLE      Method and reagent for the treatment of diseases or conditions
              related to levels of vascular endothelial growth factor receptor
JOURNAL      Patent: US 6346398-A 4363 12-FEB-2002;
              Location/Qualifiers
FEATURES      source
              1..17
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1612 AGATTCACCGCTGA 1627
|||||
Db      2 AGATTCACCGCTGA 17

RESULT 14
ARI324728      17 bp      RNA      linear      PAT 17-AUG-2003
LOCUS      ARI324728
DEFINITION      Sequence 2130 from patent US 6566127.
ACCESSION      ARI324728
VERSION      ARI324728.1 GI:33710536
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 17)
AUTHORS      Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE      Method and reagent for the treatment of diseases or conditions
              related to levels of vascular endothelial growth factor receptor
JOURNAL      Patent: US 6566127-A 2130 20-MAY-2003;

```



```

FEATURES
  source
    1..17
    /location/Qualifiers
    /organism="unknown"
    /mol_type="unassigned RNA"

  Query Match
    0.6%; Score 14.4; DB 1; Length 17;
  Best Local Similarity
    93.8%; Pred. No. 25;
  Matches
    15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1612 AGATTCACGAGCTGA 1627
Db 2 AGATTCACGAGCTGA 17

RESULT 15
AX475416
LOCUS
  DEFINITION
    Sequence 6910 from patent US 6566127.
  ACCESSION
    AR329508
  VERSION
    AR329508.1 GI:33715316
  KEYWORDS
    .
  SOURCE
    Unknown.
  ORGANISM
    Unclassified.
  REFERENCE
    1 (bases 1 to 17)
  AUTHORS
    Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
  TITLE
    Method and reagent for the treatment of diseases or conditions
    related to levels of vascular endothelial growth factor receptor
  JOURNAL
    Patent: US 6566127-A 6910 20-MAY-2003;
  FEATURES
    Location/Qualifiers
    1..17
    /organism="unknown"
    /mol_type="unassigned RNA"

  Query Match
    0.6%; Score 14.4; DB 1; Length 17;
  Best Local Similarity
    93.8%; Pred. No. 25;
  Matches
    15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1612 AGATTCACGAGCTGA 1627
Db 1 AGATTCACGAGCTGA 16

RESULT 16
AX475416
LOCUS
  DEFINITION
    Sequence 637 from Patent WO0224750.
  ACCESSION
    AX475416
  VERSION
    AX475416.1 GI:22214701
  KEYWORDS
    .
  SOURCE
    Homo sapiens (human)
  ORGANISM
    Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
  REFERENCE
    1
  AUTHORS
    Zhang,J.
  TITLE
    Human kidney tumor overexpressed membrane protein 1
  JOURNAL
    Patent: WO 0224750-A 637 28-MAR-2002;
  ORGANISM
    Homo sapiens (human)
  FEATURES
    Location/Qualifiers
    1..17
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

  Query Match
    0.6%; Score 14.4; DB 1; Length 17;
  Best Local Similarity
    93.8%; Pred. No. 25;
  Matches
    15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 767 CTATATGCACTGACC 782
Db 2 CTATATGCACTGACC 17

RESULT 17
AX475417
LOCUS
  DEFINITION
    Sequence 638 from Patent WO0224750.
  ACCESSION
    AX475417
  VERSION
    AX475417.1 GI:22214702
  KEYWORDS
    .
  SOURCE
    Homo sapiens (human)
  ORGANISM
    Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
  REFERENCE
    1
  AUTHORS
    Zhang,J.
  TITLE
    Human kidney tumor overexpressed membrane protein 1
  JOURNAL
    Patent: WO 0224750-A 638 28-MAR-2002;
  ORGANISM
    Homo sapiens (human)
  FEATURES
    Location/Qualifiers
    1..17
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

  Query Match
    0.6%; Score 14.4; DB 1; Length 17;
  Best Local Similarity
    93.8%; Pred. No. 25;
  Matches
    15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 767 CTATATGCACTGACC 782
Db 1 CTATATGCACTGACC 16

RESULT 18
AX672442/C
LOCUS
  DEFINITION
    Sequence 887 from Patent WO03004526.
  ACCESSION
    AX672442
  VERSION
    AX672442.1 GI:29330790
  KEYWORDS
    .
  SOURCE
    Homo sapiens (human)
  ORGANISM
    Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
  REFERENCE
    1
  AUTHORS
    Telerman,A., Amson,R. and Tuijnder,M.
  TITLE
    Sequences involved in phenomena of tumour suppression, tumour
    reversion, apoptosis and/or resistance to viruses and their use as
    medicines
  JOURNAL
    Patent: WO 03004526-A 887 16-JAN-2003;
  ORGANISM
    Molecular Engines Laboratories (FR)
  FEATURES
    Location/Qualifiers
    1..17
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

  Query Match
    0.6%; Score 14.4; DB 1; Length 17;
  Best Local Similarity
    93.8%; Pred. No. 25;
  Matches
    15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1220 AATGGCAACCAATCAT 1235
Db 17 AATGGCAACCAATGAT 2

RESULT 19
AX723944
LOCUS
  DEFINITION
    Sequence 1631 from Patent WO03025176.
  ACCESSION
    AX723944
  VERSION
    AX723944.1 GI:30503287
  KEYWORDS
    .
  SOURCE
    Mus musculus (house mouse)

```

```

ORGANISM
Mus musculus
Zukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1
REFERENCE
AUTHORS
TITLE
Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL
Patent: WO 03025175-A 1631 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Mus musculus"
/mol_type="unassigned DNA"
/db_xref="taxon:10090"

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 726 GAGCTGTGTGTGTTT 741
||| ||||| |||||
Db 1 GATCTGTGTGTGTTT 16

RESULT 20
AX730352/c
LOCUS
DEFINITION
Sequence 1986 from Patent WO03025175.
ACCESSION
AX730352
VERSION
AX730352.1 GI:30509695
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
REFERENCE
AUTHORS
TITLE
Telerman,A., Anson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL
Patent: WO 03025175-A 1986 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 CTGAGTAGCAGAGAT 670
||| ||||| |||||
Db 17 CTGTGTAGCAGAGAT 2

RESULT 21
AX733378/c
LOCUS
DEFINITION
Sequence 5012 from Patent WO03025175.
ACCESSION
AX733378
VERSION
AX733378.1 GI:30512721
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
REFERENCE
AUTHORS
TITLE
Telerman,A., Anson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL
Patent: WO 03025175-A 5012 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1220 AATGCCAACCAATCAT 1235
||| ||||| |||||
Db 17 AATGCCAACCAATGAT 2

RESULT 23
AX761145/c
LOCUS
DEFINITION
Sequence 4466 from Patent WO03040369.
ACCESSION
AX761145
VERSION
AX761145.1 GI:32255761
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
REFERENCE
AUTHORS
TITLE
Telerman,A., Anson,R. and Tuijnder,M.
Sequences involved in tumoral suppression, tumoral reversion,
apoptosis and/or viral resistance phenomena and their use as
medicines
JOURNAL
Patent: WO 03040369-A 4466 15-MAY-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"

```

```

medicines
Patent: WO 03025175-A 5012 27-MAR-2003;
Molecular Engines Laboratories (FR)
LOCATION/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 815 CATTACCAAAACGCT 830
||| ||||| |||||
Db 17 CATTACCAAAACGAT 2

RESULT 22
AX737466/c
LOCUS
DEFINITION
Sequence 3056 from Patent WO03025177.
ACCESSION
AX737466
VERSION
AX737466.1 GI:30516754
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
REFERENCE
AUTHORS
TITLE
Telerman,A., Anson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL
Patent: WO 03025177-A 3056 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1220 AATGCCAACCAATCAT 1235
||| ||||| |||||
Db 17 AATGCCAACCAATGAT 2

RESULT 23
AX761145/c
LOCUS
DEFINITION
Sequence 4466 from Patent WO03040369.
ACCESSION
AX761145
VERSION
AX761145.1 GI:32255761
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
REFERENCE
AUTHORS
TITLE
Telerman,A., Anson,R. and Tuijnder,M.
Sequences involved in tumoral suppression, tumoral reversion,
apoptosis and/or viral resistance phenomena and their use as
medicines
JOURNAL
Patent: WO 03040369-A 4466 15-MAY-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"

```

```

/db_xref="taxon:9606"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1342 TTCGTCAGCTGAGAT 1357
DB 17 TTTGTTTCAGCTGAGAT 2

RESULT 24
BD201129
LOCUS
DEFINITION
  BD201129 17 bp RNA linear PAT 17-JUL-2003
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response.
ACCESSION
  BD201129
VERSION
  BD201129.1 GI:33010899
KEYWORDS
  JP 2002509721-A/4156.
SOURCE
  Homo sapiens (human)
ORGANISM
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  1 (bases 1 to 17)
  Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response
  Patent: JP 2002509721-A 4156 02-APR-2002;
  RIBOZYME PHARMACEUTICALS INC
  OS Homo sapiens (human)
  PN JP 2002509721-A/4156
  PD 02-APR-2002
  PF 24-MAR-1999 JP 2000541291
  PR 27-MAR-1998 US 60/079678
  PI PAMELA A PAVCO, ELISABETH ROBERTS, THALE JARVIS, CLAIRE COESHOTT,
  PC JAMES A MCSWIGGEN
  C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
  A61P29/00,
  C12N5/00
  CC Method and reagent for treating diseases or conditions CC
  concerning molecule
  CC participating in vasculogenic response
  FH Key Location/Qualifiers
  FT source 1..17
  FT /organism='Homo sapiens (human)'
  FEATURES
  source
  Location/Qualifiers
  1..17
  /organism="Homo sapiens"
  /mol_type="genomic RNA"
  /db_xref="taxon:9606"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 798 GGTTCCTTCAGGAGAA 813
DB 1 GGTTCCTTCAGGAGAA 16

RESULT 26
BD201674
LOCUS
DEFINITION
  BD201674 17 bp RNA linear PAT 17-JUL-2003
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response.
ACCESSION
  BD201674.1 GI:33011444
VERSION
  BD201674.1 JP 2002509721-A/4700.
KEYWORDS
  JP 2002509721-A 4700 02-APR-2002;
  RIBOZYME PHARMACEUTICALS INC
  OS Homo sapiens (human)
  PN JP 2002509721-A/4700
  PD 02-APR-2002
  PF 24-MAR-1999 JP 2000541291
  PR 27-MAR-1998 US 60/079678
  PI PAMELA A PAVCO, ELISABETH ROBERTS, THALE JARVIS, CLAIRE COESHOTT,
  PC JAMES A MCSWIGGEN
  C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
  A61P29/00,
  C12N5/00
  CC Method and reagent for treating diseases or conditions CC
  concerning molecule
  CC participating in vasculogenic response
  FH Key Location/Qualifiers
  FT source 1..17
  FT /organism='Homo sapiens (human)'
  FEATURES
  source
  Location/Qualifiers
  1..17
  /organism="Homo sapiens"
  /mol_type="genomic RNA"
  /db_xref="taxon:9606"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 798 GGTTCCTTCAGGAGAA 813
DB 2 GGTTCCTTCAGGAGAA 17

RESULT 25
BD201130
LOCUS
DEFINITION
  BD201130 17 bp RNA linear PAT 17-JUL-2003
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response.
ACCESSION
  BD201130
VERSION
  BD201130.1 GI:33010900
KEYWORDS
  JP 2002509721-A/4156.
SOURCE
  Homo sapiens (human)
ORGANISM
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  1 (bases 1 to 17)
  Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response
  Patent: JP 2002509721-A 4156 02-APR-2002;
  RIBOZYME PHARMACEUTICALS INC
  OS Homo sapiens (human)
  PN JP 2002509721-A/4156
  PD 02-APR-2002
  PF 24-MAR-1999 JP 2000541291
  PR 27-MAR-1998 US 60/079678
  PI PAMELA A PAVCO, ELISABETH ROBERTS, THALE JARVIS, CLAIRE COESHOTT,
  PC JAMES A MCSWIGGEN
  C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
  A61P29/00,
  C12N5/00
  CC Method and reagent for treating diseases or conditions CC
  concerning molecule
  CC participating in vasculogenic response
  FH Key Location/Qualifiers
  FT source 1..17
  FT /organism='Homo sapiens (human)'
  FEATURES
  source
  Location/Qualifiers
  1..17
  /organism="Homo sapiens"
  /mol_type="genomic RNA"
  /db_xref="taxon:9606"

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 798 GGTTCCTTCAGGAGAA 813
DB 2 GGTTCCTTCAGGAGAA 17

RESULT 25
BD201130
LOCUS
DEFINITION
  BD201130 17 bp RNA linear PAT 17-JUL-2003
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response.
ACCESSION
  BD201130
VERSION
  BD201130.1 GI:33010900
KEYWORDS
  JP 2002509721-A/4156.
SOURCE
  Homo sapiens (human)
ORGANISM
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  1 (bases 1 to 17)
  Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
  Method and reagent for treating diseases or conditions concerning
  molecule participating in vasculogenic response
  Patent: JP 2002509721-A 4156 02-APR-2002;
  RIBOZYME PHARMACEUTICALS INC
  OS Homo sapiens (human)
  PN JP 2002509721-A/4156
  PD 02-APR-2002
  PF 24-MAR-1999 JP 2000541291
  PR 27-MAR-1998 US 60/079678
  PI PAMELA A PAVCO, ELISABETH ROBERTS, THALE JARVIS, CLAIRE COESHOTT,
  PC JAMES A MCSWIGGEN
  C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
  A61P29/00,
  C12N5/00
  CC Method and reagent for treating diseases or conditions CC
  concerning molecule
  CC participating in vasculogenic response
  FH Key Location/Qualifiers
  FT source 1..17
  FT /organism='Homo sapiens (human)'
  FEATURES
  source
  Location/Qualifiers
  1..17
  /organism="Homo sapiens"
  /mol_type="genomic RNA"
  /db_xref="taxon:9606"

```

```

FH Key Location/Qualifiers
FT source 1. .17
FT /organism='Homo sapiens (human)'.
FEATURES
  source
    Location/Qualifiers
    1. .17
    /organism='Homo sapiens'
    /mol_type='genomic RNA'
    /db_xref='taxon:9606'

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1454 TTTTATAAAAGTATT 1469
Db 2 TTTTATAAAAGTGTT 17

RESULT 27
AX731670.1 17 bp DNA linear PAT 08-MAY-2003
LOCUS AX731670
DEFINITION Sequence 3304 from Patent WO03025175.
ACCESSION AX731670
VERSION AX731670.1 GI:30511013
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
  Telerman,A., Anson,R. and Tuijinder,M.
  Sequences involved in phenomena of tumour suppression, tumour
  reversion, apoptosis and/or virus resistance and their use as
  medicines
JOURNAL Patent: WO 03025175-A 3304 27-MAR-2003;
FEATURES
  source
    Location/Qualifiers
    1. .17
    /organism='Homo sapiens'
    /mol_type='unassigned DNA'
    /db_xref='taxon:9606'

Query Match 0.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 975 CTGAGAAAAAATGCT 988
Db 4 CTGAGAAAAAATGCT 17

RESULT 28
AR046173/c
LOCUS AR046173
DEFINITION Sequence 966 from patent US 5817796.
ACCESSION AR046173
VERSION AR046173.1 GI:5967638
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
  Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
  C-myb ribozymes having 2'-5'-linked adenylylate residues
  Patent: US 5817796-A 966 06-OCT-1998;
JOURNAL Location/Qualifiers
FEATURES
  source
    /organism='unknown'
    /mol_type='unassigned DNA'

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1269 CCAGGATTTTCAGACTT 1285
Db 1 CTAGTATTTTCAGACTT 17

RESULT 31
BD257498
LOCUS BD257498
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD257498
VERSION BD257498.1 GI:33067268
KEYWORDS JP 2002541795-A/5291.
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 17)

```

```

QY 1452 AGTTTATATAAAAGTAT 1468
Db 17 ATTTTATATAAAAGTAT 1

RESULT 29
AR046239
LOCUS AR046239
DEFINITION Sequence 1032 from patent US 5817796.
ACCESSION AR046239
VERSION AR046239.1 GI:5967704
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
  Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
  C-myb ribozymes having 2'-5'-linked adenylylate residues
  Patent: US 5817796-A 1032 06-OCT-1998;
JOURNAL Location/Qualifiers
FEATURES
  source
    /organism='unknown'
    /mol_type='unassigned DNA'

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1268 ACCGAGATTTTCAGACTT 1284
Db 1 ACTAGTATTTTCAGACTT 17

RESULT 30
AR046241
LOCUS AR046241
DEFINITION Sequence 1034 from patent US 5817796.
ACCESSION AR046241
VERSION AR046241.1 GI:5967706
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
  Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
  C-myb ribozymes having 2'-5'-linked adenylylate residues
  Patent: US 5817796-A 1034 06-OCT-1998;
JOURNAL Location/Qualifiers
FEATURES
  source
    /organism='unknown'
    /mol_type='unassigned DNA'

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1269 CCAGGATTTTCAGACTT 1285
Db 1 CTAGTATTTTCAGACTT 17

RESULT 31
BD257498
LOCUS BD257498
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD257498
VERSION BD257498.1 GI:33067268
KEYWORDS JP 2002541795-A/5291.
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 17)

```

**AUTHORS** Blatt, L., Zwick, M., Pavco, P. and Mcswiggen, J.  
**TITLE** Regulation of repressor genes using nucleic acid molecules  
**JOURNAL** Patent: JP 2002541795-A 5291 10-DEC-2002;  
RIBOZYME PHARMACEUTICALS INC

OS	Eukaryote
PN	JP 2002541795-A/5291
PD	10-DEC-2002
PF	11-APR-2000 JP 2000611654
PR	12-APR-1999 US 60/129390
PI	LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSNIGGEN PC
PC	C12P21/02, C12P21/02, A61K38/00, A61P43/00, A61P43/00, C12N5/10, PC
PC	C12P21/02, C12P21/02/A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
PC	C12R1:91)
PC	(C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
PC	A61K37/02, C12R1:91)
CC	Regulation of repressor genes using nucleic acid molecules FH
Key	Location/Qualifiers
FT	source 1..17
PT	/organism='Eukaryote'.

```
Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

Qy 795 AAAGGTTTCTTCAGGAG 811  
||| ||| ||| |||  
Db 1 AAAAGTTTCTTCAGAG 17

RESULT 32			
I53225/c			
LOCUS	I53225	17 bp	DNA
DEFINITION	Sequence 966	from patent	US 5646042.
		linear	PAT 07-OCT-1997

Query Match	0.6%	Score 13.8;	DB 1;	Length 17;
Best Local Similarity	88.2%	Pred. No. 33;		
Matches 15;	Conservative	0;	Mismatches	2;
			Indels	0;
			Gaps	0;

QY 1452 AGTTTTTATAAAAAGTAT 1468  
| | | | |  
D'b 17 ATTTTTTTATAAAACTAT 1

RESULT	33
I53291	
LOCUS	I53291
DEFINITION	I53291
ACCESSION	I53291
VERSION	I53291.1
KEYWORDS	. GI:2474494
SOURCE	Unknown.
	I53291
	Sequence 1032 from patent US 5645042.
	17 bp DNA
	linear
	PAT 07-OCr-1997

```

ORGANISM
Unknown.
Unclassified.
1 (bases 1 to 17)
REFERENCE
Stinchcomb D.T., Draper K., McSwiggen, J. and Jarvis, T.
AUTHORS
C-myb targeted ribozymes
TITLE
Patent: US 5646042-A 1032 08-JUL-1997;
JOURNAL
Location/Qualifiers
FEATURES
1..17
source
/organism="unknown"
/mol_type="unassigned DNA"

```

```
Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15: Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

Qy 1268 ACCAGGATTCAGACTT 1284  
db 1 ACTAGTATTCAGACTT 17

RESULT	34
I53293	
LOCUS	
DEFINITION	i53293
ACCESSION	Sequence 1034 from patent US 5646042.
VERSION	i53293.1 GI:2474496
KEYWORDS	.
SOURCE	Unknown.
	linear
	17 bp DNA
	PAT 07-OCT-1997

Query Match	0.6%	Score 13.8;	DB 1;	Length 17;
Best Local Similarity	88.2%	Pred. No. 33;		
Matches 15:	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

QY	1269	CCAGGATTT	CGAGACTTT	1285
DB	1	CTAGTATTT	CGAGACTTT	17

RESULT	35
LOCUS	AR186750
DEFINITION	Sequence 2238 from patent US 6346398.
ACCESSION	AR186750
VERSION	AR186750.1 GI:20232715
KEYWORDS	.
SOURCE	Unknown.
linear	17 bp DNA
PAT	20-APR-2002

Query Match	0.6%;	Score 13.8;	DB 1;	Length 17;
Best Local Similarity	88.2%;	Pred. NO. 33;		
Matches 15:	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0

QY 1101 CAGACTCTTCTACATT 1117

AUTHORS	Phillips,M.I. and Zhang,Y.
TITLE	Antisense compositions targeted to beta.1-adrenoceptor-specific mRNA and methods of use
JOURNAL	Patent: US 6489307-A 111 03-DEC-2002;
FEATURES	Location/Qualifiers
source	1..17 /organism="unknown" /mol_type="genomic DNA"
Query Match	0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity	98.2%; Pred.No.33;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	685 AGCCCGCATGGGCGC 701
DB	17 AGTCGGCATGGGCGC 1
RESULT 39	
AR3233381	
LOCUS	AR3233381 17 bp RNA linear PAT 17-AUG-2003
DEFINITION	Sequence 783 from patent US 6566127.
ACCESSION	AR3233381
VERSION	AR3233381.1 GI:33709189
KEYWORDS	Unknown.
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 17)
AUTHORS	Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE	Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL	Patent: US 6566127-A 783 20-MAY-2003;
FEATURES	Location/Qualifiers
source	1..17 /organism="unknown" /mol_type="unassigned RNA"
Query Match	0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity	98.2%; Pred.No.33;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	1101 CAGACTCTTCTACATT 1117
DB	1 CTGACCCTTCTACATT 17
RESULT 40	
AR3233687	
LOCUS	AR3233687 17 bp RNA linear PAT 17-AUG-2003
DEFINITION	Sequence 1089 from patent US 6566127.
ACCESSION	AR3233687
VERSION	AR3233687.1 GI:33709495
KEYWORDS	Unknown.
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 17)
AUTHORS	Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE	Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL	Patent: US 6566127-A 1089 20-MAY-2003;
FEATURES	Location/Qualifiers
source	1..17 /organism="unknown" /mol_type="unassigned RNA"
Query Match	0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity	98.2%; Pred.No.33;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	1159 TAACAATAAATTTTA 1175
DB	TTTTTTTTTTTTTTTTTTTT

Db 1 TAACAAATAAACCTTA 17  
17 bp RNA linear PAT 17-AUG-2003

RESULT 41  
AR323828/c  
LOCUS AR323828 1230 from patent US 6566127.  
DEFINITION Sequence 1230 from patent US 6566127.  
ACCESSION AR323828  
VERSION AR323828.1 GI:33709636  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 1230 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned RNA"

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 33;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1450 TTAGTTTATATAAAGT 1456  
17 TTGGTTTGTATATAAAGT 1

Db 17 TTGGTTTGTATATAAAGT 1

RESULT 42  
AR327770  
LOCUS AR327770 5172 from patent US 6566127.  
DEFINITION Sequence 5172 from patent US 6566127.  
ACCESSION AR327770  
VERSION AR327770.1 GI:33713578  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 5172 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned RNA"

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 33;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1103 GACTCTTCTACATTTA 1119  
1 GACCCCTTCTACATTGA 17

Db 1 GACCCCTTCTACATTGA 17

RESULT 43  
AR329509  
LOCUS AR329509 6911 from patent US 6566127.  
DEFINITION Sequence 6911 from patent US 6566127.  
ACCESSION AR329509  
VERSION AR329509.1 GI:33715317  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.

TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 6911 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned RNA"

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 33;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1613 GATTCACCAAGCTGAAA 1629  
1 GATTCACCAAGCTGACA 17

Db 1 GATTCACCAAGCTGACA 17

RESULT 44  
AR401952/c  
LOCUS AR401952 292 from patent US 6623962.  
DEFINITION Sequence 292 from patent US 6623962.  
ACCESSION AR401952  
VERSION AR401952.1 GI:40149402  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.  
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors  
JOURNAL Patent: US 6623962-A 292 23-SEP-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 33;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 718 AAGGGATGAGCTGTGT 734  
17 AAGGGATGAGCTGCGT 1

Db 17 AAGGGATGAGCTGCGT 1

RESULT 45  
AX216849  
LOCUS AX216849 2291 from Patent WO0159103.  
DEFINITION Sequence 2291 from Patent WO0159103.  
ACCESSION AX216849  
VERSION AX216849.1 GI:15526910  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1  
AUTHORS Blatt,L., McSwiggen,J. and Chowrixa,B.M.  
TITLE Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression  
JOURNAL Patent: WO 0159103-A 2291 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US); McSwiggen, James (US); Chowrixa, Bharat M. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="synthetic construct"  
/mol\_type="unassigned RNA"  
/db\_xref="taxon:32630"  
/note="Nucleic Acid"

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 33;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Sequence 111 from Patent WO0204623.
DEFINITION AX382377
ACCESSION AX382377.1 GI:19577150
VERSION
KEYWORDS unidentified
SOURCE unclassified.
ORGANISM
REFERENCE 1
AUTHORS Phillips,M.I. and Zhang,Y.
TITLE Antisense compositions targeted to _g(b) 1? adrenoceptor-specific mrna and methods of use
JOURNAL Patent: WO 0204623-A 111 17-JAN-2002; University of Florida (US)
FEATURES Location/Qualifiers
source 1..17
/mol_type="unassigned"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
/note="SYNTHETIC OLIGONUCLEOTIDE"

Query Match 0.6%; Score 13.8; DB:1; Length 17;
Best Local Similarity 88.2%; Pred.No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 685 AGCCCGCATGGGCGCG 701
Db 17 AGCTGGCATGGGCGCG 1

RESULT 49
AX422007 LOCUS 17 bp RNA linear PAT 18-JUN-2002
DEFINITION Sequence 343 from Patent WO0188124.
ACCESSION AX422007
VERSION AX422007.1 GI:21525389
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1
AUTHORS Jarvis,T., von Carlowitz,I., Mcswiggen,J.A., McLaughlin,F.G. and Randi,A.M.
TITLE Method and reagent for the inhibition of erg
JOURNAL Patent: WO 0188124-A 343 22-NOV-2001; GLAXO GROUP LIMITED (GB) RIBOZYME PHARMACEUTICALS, INC. (US);
FEATURES Location/Qualifiers
source 1..17
/mol_type="Homo sapiens"
/mol_type="unassigned RNA"
/db_xref="taxon:9606"

Query Match 0.6%; Score 13.8; DB:1; Length 17;
Best Local Similarity 88.2%; Pred.No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1248 GTAGAAATTCACAAA 1264
Db 1 GTAGAAATTCAGAACAA 17

RESULT 50
AX422138/c LOCUS 17 bp RNA linear PAT 18-JUN-2002
DEFINITION Sequence 474 from Patent WO0188124.
ACCESSION AX422138
VERSION AX422138.1 GI:21525520
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1

```

QY	606 ATATATGAAGTCTGCGC 622				
Dd	1 ATAAAGGAAGTCTGCGC 17				
RESULT 46					
AX217049/c					
LOCUS	AX217049	17 bp	RNA	linear	PAT 07-SEP-2001
DEFINITION	Sequence 2491 from Patent WO0159103.				
ACCESSION	AX217049				
VERSION	AX217049.1	GI:15527110			
KEYWORDS	synthetic construct				
SOURCE	artificial sequences.				
ORGANISM					
REFERENCE					
AUTHORS	Blatt, L., McSwiggen, J. and Chowrira, B.M.				
TITLE	Method and reagent for the modulation and diagnosis of cd20 and nco gene expression				
JOURNAL	Patent: WO 0159103-A 2491 16-AUG-2001;				
	RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);				
	McSwiggen, James (US); Chowrira, Bharat M. (US)				
FEATURES	Location/Qualifiers				
source	1..17				
	/organism="synthetic construct"				
	/mol_type="unassigned RNA"				
	/db_xref="taxon:32630"				
	/note="Nucleic Acid"				
Query Match	0.6%; Score 13.8; DB 1; Length 17;				
Best Local Similarity	88.2%; Pred. No. 33;				
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	567 TTCTACCCCGAGGCC 583				
Dd	17 TTTTACTCTCAGCAGCC 1				
RESULT 47					
AX227475/c					
LOCUS	AX227475	17 bp	RNA	linear	PAT 10-SEP-2001
DEFINITION	Sequence 847 from Patent WO0157206.				
ACCESSION	AX227475				
VERSION	AX227475.1	GI:15556616			
KEYWORDS	synthetic construct				
SOURCE	artificial sequences.				
ORGANISM					
REFERENCE					
AUTHORS	Fattaey, A.R., Jarvis, T., Mcswiggen, J., Bocher, R.N. and Holman, P.S.				
TITLE	Method and reagent for the inhibition of checkpoint kinase-1 (chk 1) enzyme				
JOURNAL	Patent: WO 0157206-A 847 09-AUG-2001;				
	RIBOZYME PHARMACEUTICALS, INC. (US); Fattaey, Ali R. (US)				
FEATURES	Location/Qualifiers				
source	1..17				
	/organism="synthetic construct"				
	/mol_type="unassigned RNA"				
	/db_xref="taxon:32630"				
Query Match	0.6%; Score 13.8; DB 1; Length 17;				
Best Local Similarity	88.2%; Pred. No. 33;				
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	800 TTTCTTCAGGAGGACCA 816				
Dd	17 TTTCTTCAGGAGGACCA 1				
RESULT 48					
AX382377/c					
LOCUS	AX382377	17 bp	DNA	linear	PAT 18-MAR-2002
DEFINITION	Sequence 474 from Patent WO0188124.				
ACCESSION	AX422138				
VERSION	AX422138.1	GI:21525520			
KEYWORDS	Homo sapiens (human)				
SOURCE	Homo sapiens				
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE					
AUTHORS	Jarvis, T., von Carlowitz, I., Mcswiggen, J.A., McLaughlin, F.G. and Randi, A.M.				
TITLE	Method and reagent for the inhibition of erg				
JOURNAL	Patent: WO 0188124-A 343 22-NOV-2001;				
	RIBOZYME PHARMACEUTICALS, INC. (US); GLAXO GROUP LIMITED (GB)				
FEATURES	Location/Qualifiers				
source	1..17				
	/organism="Homo sapiens"				
	/mol_type="unassigned RNA"				
	/db_xref="taxon:9606"				
Query Match	0.6%; Score 13.8; DB 1; Length 17;				
Best Local Similarity	88.2%; Pred. No. 33;				
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	1248 GTAGAATTTCACAAAAA 1264				
Dd	1 GTAGAATTTCAGAACAA 17				
RESULT 50					
AX422138/c					
LOCUS	AX422138	17 bp	RNA	linear	PAT 18-JUN-2002
DEFINITION	Sequence 474 from Patent WO0188124.				
ACCESSION	AX422138				
VERSION	AX422138.1	GI:21525520			
KEYWORDS	Homo sapiens (human)				
SOURCE	Homo sapiens				
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE					
AUTHORS	Jarvis, T., von Carlowitz, I., Mcswiggen, J.A., McLaughlin, F.G. and Randi, A.M.				
TITLE	Method and reagent for the inhibition of erg				
JOURNAL	Patent: WO 0188124-A 343 22-NOV-2001;				
	RIBOZYME PHARMACEUTICALS, INC. (US); GLAXO GROUP LIMITED (GB)				
FEATURES	Location/Qualifiers				
source	1..17				
	/organism="Homo sapiens"				
	/mol_type="unassigned RNA"				
	/db_xref="taxon:9606"				
Query Match	0.6%; Score 13.8; DB 1; Length 17;				
Best Local Similarity	88.2%; Pred. No. 33;				
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	1248 GTAGAATTTCACAAAAA 1264				
Dd	1 GTAGAATTTCAGAACAA 17				
RESULT 50					
AX422138/c					
LOCUS	AX422138	17 bp	RNA	linear	PAT 18-JUN-2002
DEFINITION	Sequence 474 from Patent WO01				



```

AUTHORS    Jarvis,T., von Carlowitz,I., Mcswiggen,J.A., McLaughlin,F.G. and
            Randi,A.M.
TITLE      Method and reagent for the inhibition of erg
JOURNAL    Patent: WO 0188124-A 474 22-NOV-2001;
            RIBOZYME PHARMACEUTICALS, INC. (US) ; GLAXO GROUP LIMITED (GB)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned RNA"
/db_xref="taxon:9606"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1357 TTTTCAATGAAGAACTT 1373
Db 17 TTTTCATTAAAGCACTT 1

RESULT 51
AX422613
LOCUS      AX422613
DEFINITION Sequence 949 from Patent WO0188124.
ACCESSION  AX422613
VERSION     AX422613.1 GI:21525995
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
            Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS    Jarvis,T., von Carlowitz,I., Mcswiggen,J.A., McLaughlin,F.G. and
            Randi,A.M.
TITLE      Method and reagent for the inhibition of erg
JOURNAL    Patent: WO 0188124-A 949 22-NOV-2001;
            RIBOZYME PHARMACEUTICALS, INC. (US) ; GLAXO GROUP LIMITED (GB)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned RNA"
/db_xref="taxon:9606"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1479 AAATGACTCAAGAGGA 1495
Db 1 AAAGTGCTCAAGAGGA 17

RESULT 52
AX724979/c
LOCUS      AX724979/c
DEFINITION Sequence 2666 from Patent WO03025176.
ACCESSION  AX724979
VERSION     AX724979.1 GI:30504322
KEYWORDS
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE  1
AUTHORS    Telerman,A., Anson,R. and Tuijnder,M.
TITLE      Sequences involved in phenomena of tumour suppression, tumour
            reversion, apoptosis and/or virus resistance and their use as
            medicines
JOURNAL    Patent: WO 03025176-A 2666 27-MAR-2003;
            Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Mus musculus"

```

```

/mol_type="unassigned DNA"
/db_xref="taxon:10090"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1274 ATTTCACAGTTTGACC 1290
Db 17 ATGTCAGACTTTGGATC 1

RESULT 53
AX728845
LOCUS      AX728845
DEFINITION Sequence 479 from Patent WO03025175.
ACCESSION  AX728845
VERSION     AX728845.1 GI:30508188
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS    Telerman,A., Anson,R. and Tuijnder,M.
TITLE      Sequences involved in phenomena of tumour suppression, tumour
            reversion, apoptosis and/or virus resistance and their use as
            medicines
JOURNAL    Patent: WO 03025175-A 479 27-MAR-2003;
            Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 713 GATCAAGGGGATGACG 729
Db 1 GATCAAGGGGATGACG 17

RESULT 54
AX732535
LOCUS      AX732535
DEFINITION Sequence 4169 from Patent WO03025175.
ACCESSION  AX732535
VERSION     AX732535.1 GI:30511878
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS    Telerman,A., Anson,R. and Tuijnder,M.
TITLE      Sequences involved in phenomena of tumour suppression, tumour
            reversion, apoptosis and/or virus resistance and their use as
            medicines
JOURNAL    Patent: WO 03025175-A 4169 27-MAR-2003;
            Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 713 GATCAAGGGGATGACG 729
Db 1 GATCAAGGGGATGACG 17

RESULT 54
AX732535
LOCUS      AX732535
DEFINITION Sequence 4169 from Patent WO03025175.
ACCESSION  AX732535
VERSION     AX732535.1 GI:30511878
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS    Telerman,A., Anson,R. and Tuijnder,M.
TITLE      Sequences involved in phenomena of tumour suppression, tumour
            reversion, apoptosis and/or virus resistance and their use as
            medicines
JOURNAL    Patent: WO 03025175-A 4169 27-MAR-2003;
            Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

LOCUS	AX736911	17 bp	DNA	linear	PAT 08-MAY-2003
DEFINITION	Sequence 2501 from Patent WO03025177.				
ACCESSION	AX736911				
VERSION	AX736911.1	GI:30516199			
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	Telerman,A., Amson,R. and Tuijnder,M.				
TITLE	Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments				
JOURNAL	Patent: WO 03025177-A 2501 27-MAR-2003;				
FEATURES	Molecular Engines Laboratories (FR)				
source	Location/Qualifiers				
	1..17				
	/organism="Homo sapiens"				
	/mol_type="unassigned DNA"				
	/db_xref="taxon:9606"				
Query Match	0.6%; Score 13.8; DB 1; Length 17;				
Best Local Similarity	88.2%; Pred. No. 33;				
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	1082 TGAACTACACCCAGATC 1098				
DB	17 TGCATCACCAGATC 1				
RESULT 58					
AX757371					
LOCUS	AX757371	17 bp	DNA	linear	PAT 25-JUN-2003
DEFINITION	Sequence 692 from Patent WO03040369.				
ACCESSION	AX757371				
VERSION	AX757371.1	GI:32251987			
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	Telerman,A., Amson,R. and Tuijnder,M.				
TITLE	Sequences involved in tumoral suppression, tumoral reversion, apoptosis and/or viral resistance phenomena and their use as medicines				
JOURNAL	Patent: WO 03040369-A 692 15-MAY-2003;				
FEATURES	Molecular Engines Laboratories (FR)				
source	Location/Qualifiers				
	1..17				
	/organism="Homo sapiens"				
	/mol_type="unassigned DNA"				
	/db_xref="taxon:9606"				
Query Match	0.6%; Score 13.8; DB 1; Length 17;				
Best Local Similarity	88.2%; Pred. No. 33;				
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	1125 GATTCATATACAAACA 1141				
DB	1 GATTCATTACAAACA 17				
RESULT 59					
AX757539					
LOCUS	AX757539	17 bp	DNA	linear	PAT 25-JUN-2003
DEFINITION	Sequence 860 from Patent WO03040369.				
ACCESSION	AX757539				
VERSION	AX757539.1	GI:32252155			
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS    Teitelman,A., Amson,R. and Tuijinder,M.
TITLE      Sequences involved in tumoral suppression, tumoral reversion,
           apoptosis and/or viral resistance phenomena and their use as
           medicines
JOURNAL    Patent: WO 03040369-A 860 15-MAY-2003;
           Molecular Engines Laboratories (FR)
FEATURES   source
           1..17
           /organism="Homo sapiens"
           /mol_type="unassigned DNA"
           /db_xref="taxon:9606"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1095 GATCAACAGACTCTTCT 1111
Db      1 GATCAACAGCTCTCT 17

RESULT 60
BD067452/c
LOCUS      BD067452
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related
           to levels of epidermal growth factor receptors.
ACCESSION  BD067452
VERSION     BD067452.1 GI:22613055
KEYWORDS   JP 2001511003-A/292.
SOURCE     unidentified
ORGANISM   unidentified
REFERENCE  1 (bases 1 to 17)
AUTHORS    Akhtar,S., Fell,P. and Mcswiggen,J.A.
TITLE      Enzymatic nucleic acid treatment of diseases or conditions related
           to levels of epidermal growth factor receptors
JOURNAL    Patent: JP 2001511003-A 292 07-AUG-2001;
           RIBOZYME PHARMACEUTICALS INC,ASTON UNIV
COMMENT    OS Unidentified
           PN JP 2001511003-A/292
           PD 07-AUG-2001
           PF 14-JAN-1998 JP 1998532913
           PR 31-JAN-1997 US 60/036476,04-DEC-1997 US 08/985162 PI
           SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC
           C12N9/00,C07K14/71
           CC Strandedness: Single;
           CC Topology: Linear;
           CC Enzymatic nucleic acid treatment of diseases or conditions
           related to
           CC levels of epidermal growth factor receptors
           FH Key
           FT source
           1..17
           /organism="Unidentified".
           /db_xref="taxon:32644"

FEATURES   source
           1..17
           Location/Qualifiers
           /organism="unidentified"
           /mol_type="genomic RNA"
           /db_xref="taxon:32644"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 718 AAGGGGATGAGCTGTGT 734
Db      17 AAGGGCATGAGCTGCT 1

RESULT 61
BD187337

```

```

LOCUS      BD187337
DEFINITION Monoclonal antibody against catalytic domain of MT4-MMP.
ACCESSION  BD187337
VERSION     BD187337.1 GI:31879626
KEYWORDS   WO 02101046-A/4
SOURCE     synthetic construct
ORGANISM   artificial sequences.
           1 (bases 1 to 17)
REFERENCE  1
AUTHORS    Miki,I., Ota,S., Shitara,K. and Furuya,A.
TITLE      Monoclonal antibody against catalytic domain of MT4-MMP
JOURNAL    Patent: WO 02101046-A 4 19-DEC-2002;
           KYOWA HAKKO KOGYO CO LTD,ICHIRO MIKI,SO OTA,KENYA SHITARA, AKIKO
           FURUYA
COMMENT    OS Artificial Sequence
           PN WO 02101046-A/4
           PD 19-DEC-2002
           PF 11-JUN-2002 WO 2002JP005788
           PR 11-JUN-2001 JP 01P 176256
           PI ICHIRO MIKI,SO OTA,KENYA SHITARA,AKIKO FURUYA PC
           C12N15/12,C12N15/08,C07K16/40,C12N5/20,A61K39/395,A61P29/00, PC
           A61P35/00,
           PC A61P43/00,G01N33/53
           CC Description of Artificial Sequence:synthetic DNA FH Key
           FT source
           1..17
           Location/Qualifiers
           /organism="Artificial Sequence".
           1..17
           /organism="synthetic construct"
           /mol_type="genomic DNA"
           /db_xref="taxon:32630"

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 859 GTGTGATGATATGTAC 875
Db      1 GTGTGATGATATCTGC 17

RESULT 62
BD200615/c
LOCUS      BD200615
DEFINITION Method and reagent for treating diseases or conditions concerning
           molecule participating in vasculogenic response.
ACCESSION  BD200615
VERSION     BD200615.1 GI:33010385
KEYWORDS   JP 2002509721-A/3641.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
           1 (bases 1 to 17)
REFERENCE  1
AUTHORS    Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
TITLE      Method and reagent for treating diseases or conditions concerning
           molecule participating in vasculogenic response
JOURNAL    Patent: JP 2002509721-A 3641 02-APR-2002;
           RIBOZYME PHARMACEUTICALS INC
COMMENT    OS Homo sapiens (human)
           PN JP 2002509721-A/3641
           PD 02-APR-2002
           PF 24-MAR-1999 JP 2000541291
           PR 27-MAR-1998 US 60/079678
           PI PAMELA A PAVCO,ELISABETH ROBERTS,THALE JARVIS,CLAIRE COESHOTT,
           JAMES A MCSWIGGEN
           PC
           C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
           A61P29/00,
           PC A61P35/00,A61P43/00,C12N5/10,C12N9/00//A61K35/76,C12N15/00, PC
           C12N5/00
           CC Method and reagent for treating diseases or conditions CC

```

```

concerning molecule
CC participating in vasculogenic response
FH Key Location/Qualifiers
FT source 1..17
    /organism="Homo sapiens (human)".
FEATURES
    source
        1..17
            Location/Qualifiers
            1..17
                /organism="Homo sapiens"
                /mol_type="genomic RNA"
                /db_xref="taxon:9606"
Query Match
Best Local Similarity 0.6%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1147 TGCCTCAGCAATAACA 1163
Db 17 TGACTCAGGACATAACA 1
RESULT 63
BD201502/c
LOCUS
DEFINITION
    17 bp RNA linear PAT 17-JUL-2003
Method and reagent for treating diseases or conditions concerning
molecule participating in vasculogenic response.
ACCESSION
BD201502.1 GI:33011272
VERSION
BD201502.1
KEYWORDS
JP 2002509721-A/4528.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 17)
AUTHORS
Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
TITLE
Method and reagent for treating diseases or conditions concerning
molecule participating in vasculogenic response
JOURNAL
Patent: JP 2002509721-A 4528 02-APR-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Homo sapiens (human)
PN JP 2002509721-A/4528
PD 02-APR-2002
PF 24-MAR-1999 JP 2000541291
PR 27-MAR-1998 US 60/079678
PI PAMELA A PAVCO,ELISABETH ROBERTS,THALE JARVIS,CLAIRE COESHOTT,
PI JAMES A MCSWIGGEN
PC
C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06,PC
A61P29/00.
PC A61P35/00,A61P43/00,C12N5/10,C12N9/00//A61K35/76,C12N15/00,PC
C12N5/00
CC Method and reagent for treating diseases or conditions CC
concerning molecule
CC participating in vasculogenic response
FH Key Location/Qualifiers
FT source 1..17
    /organism="Homo sapiens (human)".
FEATURES
    source
        1..17
            Location/Qualifiers
            1..17
                /organism="Homo sapiens"
                /mol_type="genomic RNA"
                /db_xref="taxon:9606"
Query Match
Best Local Similarity 0.6%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1423 TCTCTGATGAATATATA 1439
Db 17 TCTCTGTTGAATGTATA 1
RESULT 64
A88288/c

```

```

LOCUS
A88288
DEFINITION
    Sequence 436 from Patent WO9833904.
ACCESSION
A88288
VERSION
A88288.1 GI:6736858
KEYWORDS
unidentified
SOURCE
unidentified
ORGANISM
unclassified.
REFERENCE
1 (bases 1 to 15)
AUTHORS
Brysch,W. and Schlingensiepen,K.
TITLE
AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL
Patent: WO 9833904-A 436 06-AUG-1998;
BIOGNOSTIK GBS (DE); BRYSCH WOLFGANG (DE)
FEATURES
    source
        1..15
            Location/Qualifiers
            1..15
                /organism="unidentified"
                /mol_type="unassigned DNA"
                /db_xref="taxon:32644"
Query Match
Best Local Similarity 0.6%; Score 13.4; DB 1; Length 15;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1445 TATGTTTAGTTTATA 1459
Db 15 TCTGTTTAGTTTATA 1
RESULT 65
A90255/c
LOCUS
DEFINITION
    Sequence 436 from Patent EP0856579.
ACCESSION
A90255
VERSION
A90255.1 GI:6738769
KEYWORDS
unidentified
SOURCE
unclassified.
ORGANISM
unclassified.
REFERENCE
1 (bases 1 to 15)
AUTHORS
Brysch,W.D. and Schlingensiepen,K.D.
TITLE
An antisense oligonucleotide preparation method
JOURNAL
Patent: EP 0856579-A 436 05-AUG-1998;
BIOGNOSTIK GBS (DE)
FEATURES
    source
        1..15
            Location/Qualifiers
            1..15
                /organism="unidentified"
                /mol_type="unassigned DNA"
                /db_xref="taxon:32644"
Query Match
Best Local Similarity 0.6%; Score 13.4; DB 1; Length 15;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1445 TATGTTTAGTTTATA 1459
Db 15 TCTGTTTAGTTTATA 1
RESULT 66
I35238/c
LOCUS
DEFINITION
    Sequence 206 from patent US 5599706.
ACCESSION
I35238
VERSION
I35238.1 GI:2088206
KEYWORDS
Unknown.
SOURCE
Unknown.
ORGANISM
Unclassified.
REFERENCE
1 (bases 1 to 15)
AUTHORS
Stinchcomb,D.T., McSwiggen,J., Newton,R.S. and Ramharack,R.
TITLE
Ribozymes targeted to apo(a) mRNA
JOURNAL
Patent: US 5599706-A 206 04-FEB-1997;
FEATURES
    Location/Qualifiers

```

```

source
1. .15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match
Best Local Similarity 0.6%; Score 13.4; DB 1; Length 15;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 801 TTTTCAGGAGAGC 815
DB 15 TTTTCAGGAGAGC 1

RESULT 67
BD065801/c
LOCUS BD065801 15 bp DNA linear PAT 27-AUG-2002
DEFINITION An antisense oligonucleotide preparation method.
ACCESSION BD065801
VERSION BD065801.1 GI:22611404
KEYWORDS JP 2001511000-A/436.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1. (bases 1 to 15)
AUTHORS Schlingensiepen,K.H. and Brysch,W.
TITLE An antisense oligonucleotide preparation method
JOURNAL Patent: JP 2001511000-A 436 07-AUG-2001;
COMMENT BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
OS Unknown
PN JP 2001511000-A/436
PD 07-AUG-2001
PR 30-JAN-1998 JP 1998532533
PR 31-JAN-1997 EP 97101531.8
PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
PC C12N15/11,C07H21/04,A61K31/70
CC An antisense oligonucleotide preparation method FH Key
LOCATION/Qualifiers
FT source
FT 1. .15
/organism="Unknown".
FEATURES
source
1. .15
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match
Best Local Similarity 0.6%; Score 13.4; DB 1; Length 15;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1445 TATGTTTAGTTTITA 1459
DB 15 TCTGTTTAGTTTITA 1

RESULT 68
BD104846/c
LOCUS BD104846 15 bp DNA linear PAT 27-AUG-2002
DEFINITION Kit and method for determining HLA type.
ACCESSION BD104846
VERSION BD104846.1 GI:22650420
KEYWORDS WO 0192572-A/950.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 15)
AUTHORS Inoko,H., Kagiya,T., Ichihara,T., Matsumura,Y., Moriya,S. and Nishida,M.
TITLE Kit and method for determining HLA type
JOURNAL Patent: WO 0192572-A 950 06-DEC-2001;
COMMENT NISSHINBO INDUSTRIES INC.SYSTEM RESEARCH INC,HIDETOSHI INOKO, TAEKO KAGIYA, TATSUO ICHIHARA, YOSHIYUKI MATSUMURA,SHOGO MORIYA,MICHIO NISHIDA
OS Artificial Sequence

```

```

PN WO 0192572-A/950
PD 06-DEC-2001
PR 01-JUN-2001 WO 2001JP004662
PR 01-JUN-2000 JP 00P 164798
PI HIDETOSHI INOKO,TAEKO KAGIYA,TATSUO ICHIHARA,YOSHIYUKI PI MATSUMURA,
PI SHOGO MORIYA,MICHIO NISHIDA
PC C12Q1/68,C12M1/00,C12N15/09,C12N15/53
CC Description of Artificial Sequence:capture
FH Key Location/Qualifiers
FT source
FT 1. .15
/organism="Artificial Sequence".
FEATURES
source
1. .15
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match
Best Local Similarity 93.3%; Pred. No. 35;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1640 CTTTCCTGCTCTCCT 1654
DB 15 CTTTCCTGCTCTCCT 1

RESULT 69
A45189
LOCUS A45189 14 bp DNA linear PAT 07-MAR-1997
DEFINITION Sequence 66 from Patent WO9517507.
ACCESSION A45189
VERSION A45189.1 GI:2299684
KEYWORDS unidentified
SOURCE unidentified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W., Schlingensiepen,K., Schlingensiepen,R. and Schlingensiepen,G.
TITLE ANTISENSE NUCLEIC ACIDS FOR THE PREVENTION AND TREATMENT OF DISORDERS IN WHICH EXPRESSION OF c-erbB PLAYS A ROLE
JOURNAL Patent: WO 9517507-A 66 29-JUN-1995;
COMMENT BIOGNOSTIK GES (DE)
OTHER publication AU 1313095 950710.
FEATURES
source
1. .14
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match
Best Local Similarity 100.0%; Pred. No. 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1632 CCTCACACACTTTC 1644
DB 2 CCTCACACACTTTC 14

RESULT 70
A88289/c
LOCUS A88289 14 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 437 from Patent WO9833904.
ACCESSION A88289
VERSION A88289.1 GI:6736859
KEYWORDS unidentified
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD

```

```

JOURNAL Patent: WO 9833904-A 437 06-AUG-1998;
BIOGOSTIK GES (DE); BRYSCH WOLFGANG (DE)
FEATURES
  source
    1..14
      Location/Qualifiers
        /organism="unidentified"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32644"
  Query Match
    Best Local Similarity 0.6%; Score 13; DB 1; Length 14;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1447 TGTTCAGTTTGA 1459
    Db 13 TGTTCAGTTTGA 1
  RESULT 71
  A88290/c
  LOCUS
  DEFINITION Sequence 438 from Patent WO9833904.
  ACCESSION A88290
  VERSION A88290.1 GI:6736860
  KEYWORDS
  SOURCE
  ORGANISM
  unclassified
  unclassified
  1 (bases 1 to 14)
  BRYSCH,W.D. and Schlingensiepen,K.D.
  TITLE
  AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
  JOURNAL
  BIOGOSTIK GES (DE); BRYSCH WOLFGANG (DE)
  FEATURES
    source
      1..14
        Location/Qualifiers
          /organism="unidentified"
          /mol_type="unassigned DNA"
          /db_xref="taxon:32644"
  Query Match
    Best Local Similarity 0.6%; Score 13; DB 1; Length 14;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1447 TGTTCAGTTTGA 1459
    Db 14 TGTTCAGTTTGA 2
  RESULT 72
  A88950
  LOCUS
  DEFINITION Sequence 1098 from Patent WO9833904.
  ACCESSION A88950
  VERSION A88950.1 GI:6737520
  KEYWORDS
  SOURCE
  ORGANISM
  unclassified
  unclassified
  1 (bases 1 to 14)
  BRYSCH,W.D. and Schlingensiepen,K.D.
  TITLE
  AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
  JOURNAL
  BIOGOSTIK GES (DE); BRYSCH WOLFGANG (DE)
  FEATURES
    source
      1..14
        Location/Qualifiers
          /organism="unidentified"
          /mol_type="unassigned DNA"
          /db_xref="taxon:32644"
  Query Match
    Best Local Similarity 0.6%; Score 13; DB 1; Length 14;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1632 CCTCAACACTTGTG 1644
    Db 14 TGTTCAGTTTGA 2
  RESULT 73
  A90256/c
  LOCUS
  DEFINITION Sequence 437 from Patent EP0856579.
  ACCESSION A90256
  VERSION A90256.1 GI:6738770
  KEYWORDS
  SOURCE
  ORGANISM
  unclassified
  unclassified
  1 (bases 1 to 14)
  BRYSCH,W.D. and Schlingensiepen,K.D.
  TITLE
  AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
  JOURNAL
  BIOGOSTIK GES (DE)
  FEATURES
    source
      1..14
        Location/Qualifiers
          /organism="unidentified"
          /mol_type="unassigned DNA"
          /db_xref="taxon:32644"
  Query Match
    Best Local Similarity 0.6%; Score 13; DB 1; Length 14;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1447 TGTTCAGTTTGA 1459
    Db 13 TGTTCAGTTTGA 1
  RESULT 74
  A90257/c
  LOCUS
  DEFINITION Sequence 438 from Patent EP0856579.
  ACCESSION A90257
  VERSION A90257.1 GI:6738771
  KEYWORDS
  SOURCE
  ORGANISM
  unclassified
  unclassified
  1 (bases 1 to 14)
  BRYSCH,W.D. and Schlingensiepen,K.D.
  TITLE
  AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
  JOURNAL
  BIOGOSTIK GES (DE)
  FEATURES
    source
      1..14
        Location/Qualifiers
          /organism="unidentified"
          /mol_type="unassigned DNA"
          /db_xref="taxon:32644"
  Query Match
    Best Local Similarity 0.6%; Score 13; DB 1; Length 14;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1447 TGTTCAGTTTGA 1459
    Db 14 TGTTCAGTTTGA 2
  RESULT 75
  A902832
  LOCUS
  DEFINITION Sequence 66 from patent US 6385345.
  ACCESSION A902832
  VERSION A902832.1 GI:21499062
  KEYWORDS
  SOURCE
  ORGANISM
  Unknown.
  Unknown.
  
```

```

Unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W., Schlingensiepen,K.-H., Schlingensiepen,R. and
Schlingensiepen,G.-F.
TITLE Antisense nucleic acids for the prevention and treatment of
disorders in which expression of c-erbB plays a role
JOURNAL Patent: US 6365345-A 66 02-APR-2002;
FEATURES Location/Qualifiers
source
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 0.6%; Score 13; DB 1; Length 14;
Best Local Similarity 100.0%; Pred.No. 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1632 CCTCAACACTTTG 1644
Db |||||

2 CCTCAACACTTTG 14

RESULT 76
BD065802/c
LOCUS 14 bp DNA linear PAT 27-AUG-2002
DEFINITION An antisense oligonucleotide preparation method.
ACCESSION BD065802
VERSION BD065802.1 GI:22611405
KEYWORDS JP 2001511000-A/437.
SOURCE unidentified
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Schlingensiepen,K.H. and Brysch,W.
TITLE An antisense oligonucleotide preparation method
JOURNAL Patent: JP 2001511000-A 437 07-AUG-2001;
BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
COMMENT OS Unknown
PN JP 2001511000-A/437
PD 07-AUG-2001
PR 30-JAN-1998 JP 1998532533
PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
PC C12N15/11,C07H21/04,A61K31/70
CC An antisense oligonucleotide preparation method PH Key
FT source
FT Location/Qualifiers
1..14
/organism="Unknown".
FEATURES
source
Location/Qualifiers
1..14
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
Query Match 0.6%; Score 13; DB 1; Length 14;
Best Local Similarity 100.0%; Pred.No. 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1447 TGTTCAGTTTGA 1459
Db |||||

13 TGTTCAGTTTGA 1

RESULT 77
BD065803/c
LOCUS 14 bp DNA linear PAT 27-AUG-2002
DEFINITION An antisense oligonucleotide preparation method.
ACCESSION BD065803
VERSION BD065803.1 GI:22611406
KEYWORDS JP 2001511000-A/438.
SOURCE unidentified
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 14)

```

```

Schlingensiepen,K.H. and Brysch,W.
An antisense oligonucleotide preparation method
Patent: JP 2001511000-A 438 07-AUG-2001;
BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
COMMENT OS Unknown
PN JP 2001511000-A/438
PD 07-AUG-2001
PR 30-JAN-1998 JP 1998532533
PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
PC C12N15/11,C07H21/04,A61K31/70
CC An antisense oligonucleotide preparation method PH Key
FT source
FT Location/Qualifiers
1..14
/organism="Unknown".
FEATURES
source
Location/Qualifiers
1..14
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
Query Match 0.6%; Score 13; DB 1; Length 14;
Best Local Similarity 100.0%; Pred.No. 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1447 TGTTCAGTTTGA 1459
Db |||||

14 TGTTCAGTTTGA 2

RESULT 78
BD066463
LOCUS 14 bp DNA linear PAT 27-AUG-2002
DEFINITION An antisense oligonucleotide preparation method.
ACCESSION BD066463
VERSION BD066463.1 GI:22612066
KEYWORDS JP 2001511000-A/1098.
SOURCE unidentified
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Schlingensiepen,K.H. and Brysch,W.
TITLE An antisense oligonucleotide preparation method
JOURNAL Patent: JP 2001511000-A 1098 07-AUG-2001;
BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
COMMENT OS Unknown
PN JP 2001511000-A/1098
PD 07-AUG-2001
PR 30-JAN-1998 JP 1998532533
PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
PC C12N15/11,C07H21/04,A61K31/70
CC An antisense oligonucleotide preparation method PH Key
FT source
FT Location/Qualifiers
1..14
/organism="Unknown".
FEATURES
source
Location/Qualifiers
1..14
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
Query Match 0.6%; Score 13; DB 1; Length 14;
Best Local Similarity 100.0%; Pred.No. 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1632 CCTCAACACTTTG 1644
Db |||||

2 CCTCAACACTTTG 14

RESULT 79
AR033698

```

```

LOCUS AR033698 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 464 from patent US 5869253.
ACCESSION AR033698
VERSION AR033698.1 GI:5949303
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Draper,K.G.
TITLE Method and reagent for inhibiting hepatitis C virus replication
JOURNAL Patent: US 5869253-A 464 09-FEB-1999;
FEATURES
LOCATION/Qualifiers
1..15
/morganism="unknown"
/mol_type="unassigned DNA"
Query Match 0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGGAAA 1158
Db 2 ATGCCTCAGGAAA 14

RESULT 80
AR113520
LOCUS AR113520 15 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 464 from patent US 6132966.
ACCESSION AR113520
VERSION AR113520.1 GI:14093842
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Draper,K.G.
TITLE Method and reagent for inhibiting hepatitis C virus replication
JOURNAL Patent: US 6132966-A 464 17-OCT-2000;
FEATURES
LOCATION/Qualifiers
1..15
/morganism="unknown"
/mol_type="unassigned DNA"
Query Match 0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGGAAA 1158
Db 2 ATGCCTCAGGAAA 14

RESULT 81
AR133937
LOCUS AR133937 15 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 2362 from patent US 6194150.
ACCESSION AR133937
VERSION AR133937.1 GI:14122842
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.
TITLE Nucleic acid based inhibition of CD40
JOURNAL Patent: US 6194150-A 2362 27-FEB-2001;
FEATURES
LOCATION/Qualifiers
1..15
/morganism="unknown"
/mol_type="unassigned DNA"

```

```

Query Match 0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 561 CTGGGTTTCTACC 573
Db 1 CTGGGTTTCTACC 13

RESULT 82
IS7927
LOCUS IS7927 15 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 464 from patent US 5610054.
ACCESSION IS7927
VERSION IS7927.1 GI:2482991
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Draper,K.G.
TITLE Enzymatic RNA molecule targeted against Hepatitis C virus
JOURNAL Patent: US 5610054-A 464 11-MAR-1997;
FEATURES
LOCATION/Qualifiers
1..15
/morganism="unknown"
/mol_type="unassigned DNA"
Query Match 0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGGAAA 1158
Db 2 ATGCCTCAGGAAA 14

RESULT 83
BD207431
LOCUS BD207431 15 bp RNA linear PAT 17-JUL-2003
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to hepatitis C virus infection.
ACCESSION BD207431
VERSION BD207431.1 GI:33017201
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Blatt,L., McSwiggen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to hepatitis C virus infection
JOURNAL Patent: JP 2002512791-A 1021 08-MAY-2002;
COMMENT
CS Hepatitis virus (hepatitis C virus)
PN JP 2002512791-A/1021
PD 08-MAY-2002
PF 26-APR-1999 JP 2000545991
PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100942 PR
25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
LAWRENCE BLATT,JAMES A MCSWIGGEN,ELISABETH ROBERTS,PAMELA A PI
PAVCO,
DENNIS MACEJAK
PI C12N9/00,A61K31/7105,A61K48/00,A61P31/12,C12N15/09,
PC A61K37/66,
PC C12N15/00
CC Enzymatic nucleic acid treatment of diseases or conditions related to hepatitis C virus infection.
CC hepatitis C virus infection.
FH Key location/Qualifiers
FT source 1..15
FT /organism="Hepatitis virus (hepatitis C virus)".

```



```

FEATURES
  source
    Location/Qualifiers
      1..15
      /organism="unidentified"
      /mol_type="genomic RNA"
      /db_xref="taxon:32644"
  Query Match
    0.6%; Score 13; DB 1; Length 15;
  Best Local Similarity
    100.0%; Pred. No. 42;
  Matches
    13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCTCAGGAAA 1158
Db 2 ATGCTCAGGAAA 14

RESULT 84
LOCUS BD233115 16 bp DNA linear PAT 17-JUL-2003
DEFINITION Method of detecting mutation selected by drug in HIV protease gene.
ACCESSION BD233115
VERSION BD233115.1 GI:33042885
KEYWORDS JP 2002518065-A/211.
SOURCE Aids-associated retrovirus
ORGANISM Aids-associated retrovirus
REFERENCE 1 (bases 1 to 16)
AUTHORS Viruses; Retrovirdae.
TITLE Stuyver, L.
JOURNAL Method of detecting mutation selected by drug in HIV protease gene
PATENT: JP 2002518065-A 211 25-JUN-2002;
INNOGENETICS NV
COMMENT OS Aids-associated retrovirus
PN JP 2002518065-A/211
PD 25-JUN-2002
PF 22-JUN-1999 JP 2000556068
PR 24-JUN-1998 EP 98870143.9
PI LIEVEN STUYVER
PC C12N15/03,C12Q1/69,C12Q1/70,C12N15/00
CC Method of detecting mutation selected by drug in HIV protease
FH Key
FT source
  Location/Qualifiers
    1..16
    /organism="Aids-associated retrovirus"
    /mol_type="genomic DNA"
    /db_xref="taxon:11966"
FEATURES
  source
    Location/Qualifiers
      1..15
      /organism="unidentified"
      /mol_type="genomic RNA"
      /db_xref="taxon:32644"
  Query Match
    0.6%; Score 12.8; DB 1; Length 16;
  Best Local Similarity
    87.5%; Pred. No. 48;
  Matches
    14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1452 AGTTTATCAAGTA 1467
Db 1 AGTTTATCAAGTA 16

RESULT 85
LOCUS AR234367 16 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 21 from patent US 6458567.
ACCESSION AR234367
VERSION AR234367.1 GI:27277055
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Barber, J.R., Welch, P.J., Tritz, R., Yei, S. and Yu, M.
TITLE Hepatitis C virus ribozymes
JOURNAL Patent: US 6458567-A 21 01-OCT-2002;
FEATURES
  source
    Location/Qualifiers
      1..16
      /organism="Aids-associated retrovirus"
      /mol_type="unassigned DNA"
      /db_xref="taxon:11966"
  Query Match
    0.6%; Score 12.8; DB 1; Length 16;
  Best Local Similarity
    87.5%; Pred. No. 48;
  Matches
    14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1452 AGTTTATCAAGTA 1467
Db 1 AGTTTATCAAGTA 16

RESULT 86
LOCUS AR258885/c 16 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 103 from patent US 6489307.
ACCESSION AR258885
VERSION AR258885.1 GI:27309325
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Phillips, M.I. and Zhang, Y.
TITLE Antisense compositions targeted to .beta.1-adrenoceptor-specific mRNA and methods of use
JOURNAL Patent: US 6489307-A 103 03-DEC-2002;
FEATURES
  source
    Location/Qualifiers
      1..16
      /organism="unknown"
      /mol_type="genomic DNA"
  Query Match
    0.6%; Score 12.8; DB 1; Length 16;
  Best Local Similarity
    87.5%; Pred. No. 48;
  Matches
    14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 685 AGCCCGCATGGCGC 700
Db 16 AGCTCGCATGGCGC 1

RESULT 87
LOCUS AX007669 16 bp DNA linear PAT 06-SEP-2000
DEFINITION Sequence 211 from Patent WO9967428.
ACCESSION AX007669
VERSION AX007669.1 GI:9995366
KEYWORDS Aids-associated retrovirus
SOURCE Aids-associated retrovirus
ORGANISM Aids-associated retrovirus
REFERENCE 1
AUTHORS Viruses; Retrovirdae.
TITLE Stuyver, L.
JOURNAL Method for detection of drug-selected mutations in the hiv protease gene
PATENT: WO 9967428-A 211 29-DEC-1999;
INNOGENETICS NV (BE); STUYVER LIEVEN (BE)
FEATURES
  source
    Location/Qualifiers
      1..16
      /organism="Aids-associated retrovirus"
      /mol_type="unassigned DNA"
      /db_xref="taxon:11966"
  Query Match
    0.6%; Score 12.8; DB 1; Length 16;
  Best Local Similarity
    87.5%; Pred. No. 48;
  Matches
    14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1452 AGTTTATCAAGTA 1467
Db 1 AGTTTATCAAGTA 16

RESULT 88

```

AX382369/c  
LOCUS AX382369 16 bp DNA linear PAT 18-MAR-2002  
DEFINITION Sequence 103 from Patent WO0204623.  
ACCESSION AX382369  
VERSION AX382369.1 GI:19577142  
KEYWORDS  
SOURCE unidentified  
ORGANISM unidentified  
REFERENCE 1  
AUTHORS Phillips,M.I. and Zhang,Y.  
TITLE Antisense compositions targeted to g(b) 1? adrenoreceptor-specific  
JOURNAL Patent: WO 0204623-A 103 17-JAN-2002;  
University of Florida (US)  
FEATURES  
source  
1..16  
/organism="unidentified"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32644"  
/note="SYNTHETIC OLIGONUCLEOTIDE"

Query Match 0.6%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 48;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 685 AGCCCGCATGGGCGC 700  
Db 16 AGCTCGCATGGGCGC 1

RESULT 89  
AX8287/c  
LOCUS AX8287 14 bp DNA linear PAT 22-JAN-2000  
DEFINITION Sequence 435 from Patent WO9833904.  
ACCESSION AX8287  
VERSION AX8287.1 GI:6736857  
KEYWORDS  
SOURCE unidentified  
ORGANISM unidentified  
REFERENCE 1 (bases 1 to 14)  
AUTHORS Brysch,W. and Schlingensiepen,K.  
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD  
JOURNAL Patent: WO 9833904-A 435 06-AUG-1998;  
BIOGNOSTIK GES (DE); BRYSCH WOLFGANG (DE)  
FEATURES  
source  
1..14  
/organism="unidentified"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 52;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1445 TAGTCTTAGTTT 1458  
Db 14 TCTGTTTAGTTT 1

RESULT 90  
A90254/c  
LOCUS A90254 14 bp DNA linear PAT 22-JAN-2000  
DEFINITION Sequence 435 from Patent EP0856579.  
ACCESSION A90254  
VERSION A90254.1 GI:6738768  
KEYWORDS  
SOURCE unidentified  
ORGANISM unidentified  
REFERENCE 1 (bases 1 to 14)  
AUTHORS Brysch,W.D. and Schlingensiepen,K.D.

TITLE An antisense oligonucleotide preparation method  
JOURNAL Patent: EP 0856579-A 435 05-AUG-1998;  
BIOGNOSTIK GES (DE)  
FEATURES  
source  
1..14  
/organism="unidentified"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 52;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1445 TAGTCTTAGTTT 1458  
Db 14 TCTGTTTAGTTT 1

RESULT 91  
AR029996  
LOCUS AR029996 14 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 185 from patent US 5861244.  
ACCESSION AR029996  
VERSION AR029996.1 GI:5943210  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 14)  
AUTHORS Wang,C.-G. and Hepburn,A.G.  
TITLE Genetic sequence assay using DNA triple strand formation  
JOURNAL Patent: US 5861244-A 185 19-JAN-1999;  
FEATURES  
source  
1..14  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 52;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 536 TTCTCTCTCATCCT 549  
Db 1 TTCTCTCTCATCCT 14

RESULT 92  
AR030008  
LOCUS AR030008 14 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 197 from patent US 5861244.  
ACCESSION AR030008  
VERSION AR030008.1 GI:5943222  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 14)  
AUTHORS Wang,C.-G. and Hepburn,A.G.  
TITLE Genetic sequence assay using DNA triple strand formation  
JOURNAL Patent: US 5861244-A 197 19-JAN-1999;  
FEATURES  
source  
1..14  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 52;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 536 TTCTCTCTCATCCT 549  
Db 1 TTCTCTCTCATCCT 14

RESULT 93	BD065800	14 bp	DNA	linear	PAT 27-AUG-2002
LOCUS	BD065800				
DEFINITION	An antisense oligonucleotide preparation method.				
ACCESSION	BD065800				
VERSION	BD065800.1	GI:22611403			
KEYWORDS	JP 2001511000-A/435.				
SOURCE	unidentified				
ORGANISM	unclassified.				
REFERENCE	1 (bases 1 to 14)				
AUTHORS	Schlingensiepen,K.H. and Brysch,W.				
TITLE	An antisense oligonucleotide preparation method				
JOURNAL	Patent: JP 2001511000-A 435 07-AUG-2001;				
COMMENT	BIONOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH				
	OS Unknown				
	PN JP 2001511000-A/435				
	PD 07-AUG-2001				
	PF 30-JAN-1998	JP 1998532533			
	PR 31-JAN-1997	EP 97101531.8			
	PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH				
	PC C12N15/11,C07H21/04,A61K31/70				
	CC An antisense oligonucleotide preparation method FH Key				
	Location/Qualifiers	1..14			
FT	source				
	Location/Qualifiers	/organism='Unknown'.			
FEATURES	source				
	1..14				
	/organism="unidentified"				
	/mol_type="genomic DNA"				
	/db_xref="taxon:32644"				
Query Match	0.6%;	Score 12.4;	DB 1;	Length 14;	
Best Local Similarity	92.9%;	Pred. No. 52;			
Matches 13;	Conservative	0;	Mismatches	1;	Indels 0;
					Gaps 0;
QY	1445	TATGTTTAGTTTTT	1458		
DB	14	TCTGTTTAGTTTTT	1		
RESULT 94	A07231	15 bp	DNA	linear	PAT 25-AUG-1993
LOCUS	A07231				
DEFINITION	Oligonucleotide homologous to the alpha-1 antitrypsin gene.				
ACCESSION	A07231				
VERSION	A07231.1	GI:413003			
KEYWORDS	synthetic construct				
SOURCE	synthetic construct				
ORGANISM	artificial sequences.				
REFERENCE	1 (bases 1 to 15)				
AUTHORS	Garman,A.J. and Moore,R.S.				
TITLE	Detection of nucleic acid sequences using fluorescence polarisation				
JOURNAL	Patent: EP 0382433-A 14 16-AUG-1990;				
	IMPERIAL CHEMICAL INDUSTRIES PLC				
FEATURES	Location/Qualifiers				
source	1..15				
	/organism="synthetic construct"				
	/mol_type="unassigned DNA"				
	/db_xref="taxon:32630"				
Query Match	0.6%;	Score 12.4;	DB 1;	Length 15;	
Best Local Similarity	92.9%;	Pred. No. 55;			
Matches 13;	Conservative	0;	Mismatches	1;	Indels 0;
					Gaps 0;
QY	1078	AAACTGAATCACC	1091		
DB	2	AAATGAATCACC	15		
RESULT 95					

```
/organism="unknown"
/mol_type="unassigned DNA"

Query Match      0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAATAAA 1169
||||| |||||
Db 15 AAATAACAATAAA 2

RESULT 98
AR041406/c
LOCUS AR041406 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 196 from patent US 5811300.
ACCESSION AR041406
VERSION AR041406.1 GI:5961902
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K., Kisich,K., Stinchcomb,D.T. and McSwiggen,J.
TITLE TNF- $\alpha$  ribozymes
JOURNAL Patent: US 5811300-A 196 22-SEP-1998;
FEATURES
source
Location/Qualifiers
1..15
/mol_type="unassigned DNA"

Query Match      0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAATAAA 1169
||||| |||||
Db 14 AAATAACAATAAA 1

RESULT 101
AR045279
LOCUS AR045279 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 72 from patent US 5817796.
ACCESSION AR045279
VERSION AR045279.1 GI:5966744
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb ribozymes having 2'-5'-linked adenylylate residues
JOURNAL Patent: US 5817796-A 72 06-OCT-1998;
FEATURES
source
Location/Qualifiers
1..15
/mol_type="unassigned DNA"

Query Match      0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1444 CTATGTTTAGTTT 1457
||||| |||||
Db 1 CTATGTTTAGTTT 14

RESULT 102
AR056019/c
LOCUS AR056019 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 223 from patent US 5837542.
ACCESSION AR056019
VERSION AR056019.1 GI:5981596
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwiggen,J., Sullivan,S. and Draper,K.G.
TITLE Intercellular adhesion molecule-1 (ICAM-1) ribozymes
JOURNAL Patent: US 5837542-A 223 17-NOV-1998;
FEATURES
source
Location/Qualifiers
1..15
/mol_type="unassigned DNA"

Query Match      0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;

QY 1156 AAATAACAATAAA 1169
||||| |||||
Db 15 AAATAACAATAAA 2

RESULT 100
AR041930/c
LOCUS AR041930 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 720 from patent US 5811300.
ACCESSION AR041930
```

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAATAAA 1169  
Db 15 AAATAACAATAAGAA 2

RESULT 103  
AR074211/c  
LOCUS AR074211 15 bp DNA linear PAT 28-AUG-2000  
DEFINITION Sequence 19 from patent US 5952490.  
ACCESSION AR074211  
VERSION AR074211.1 GI:10000966  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 15)  
AUTHORS Hanecak,R.C., Anderson,K.P., Bennett,C.Frank., Chiang M.-Y., Brown-Driver,V.L., Ecker,D.J., Vickers,T.A., Wyatt,J.R. and Imbach,J.Louis.  
TITLE Oligonucleotides having a conserved G4 core sequence  
JOURNAL Patent: US 5952490-A 19 14-SEP-1999;  
FEATURES Location/Qualifiers  
source 1..15  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 55;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 686 GCCCCGCGATGGCG 699  
Db 14 GCCCCGCGATGGCG 1

RESULT 104  
AR113777/c  
LOCUS AR113777 15 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 223 from patent US 6132967.  
ACCESSION AR113777  
VERSION AR113777.1 GI:14094099  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 15)  
AUTHORS Grimm,S., Stinchcomb,D.T., McSwiggen,J., Sullivan,S. and Draper,K.G.  
TITLE Ribozyme treatment of diseases or conditions related to levels of intercellular adhesion molecule-1 (ICAM-1)  
JOURNAL Patent: US 6132967-A 23 17-OCT-2000;  
FEATURES Location/Qualifiers  
source 1..15  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 55;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAATAAA 1169  
Db 15 AAATAACAATAAGAA 2

RESULT 105  
AR132205/c  
LOCUS AR132205 15 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 630 from patent US 6194150.  
ACCESSION AR132205  
VERSION AR132205.1 GI:14121110

KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 15)  
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.  
TITLE Nucleic acid based inhibition of CD40  
JOURNAL Patent: US 6194150-A 630 27-FEB-2001;  
FEATURES Location/Qualifiers  
source 1..15  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 55;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCCTATTATTCCA 558  
Db 15 ATCCTATTATTCCA 2

RESULT 106  
AR132206/c  
LOCUS AR132206 15 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 631 from patent US 6194150.  
ACCESSION AR132206  
VERSION AR132206.1 GI:14121111  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 15)  
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.  
TITLE Nucleic acid based inhibition of CD40  
JOURNAL Patent: US 6194150-A 631 27-FEB-2001;  
FEATURES Location/Qualifiers  
source 1..15  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 55;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCCTATTATTCCA 558  
Db 15 ATCCTATTATTCCA 2

RESULT 107  
AR132207/c  
LOCUS AR132207 15 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 632 from patent US 6194150.  
ACCESSION AR132207  
VERSION AR132207.1 GI:14121112  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 15)  
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.  
TITLE Nucleic acid based inhibition of CD40  
JOURNAL Patent: US 6194150-A 632 27-FEB-2001;  
FEATURES Location/Qualifiers  
source 1..15  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 55;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

Qy 545 ATCCTATTATTCGA 558
Db 15 ATCCTATTATTCGA 2

RESULT 108
BD246789/c 15 bp DNA linear PAT 17-JUL-2003
LOCUS Method for attenuating harmful side-effects related to cell
DEFINITION transplantation.
ACCESSION BD246789
VERSION BD246789.1 GI:33056559
KEYWORDS JP 2002533358-A/3.
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
1 (bases 1 to 15)
Hurtwitz,D.R., Cherington,V., Galanopoulos,T., Levine,P.H. and
Greenberger,J.S.
TITLE Method for attenuating harmful side-effects related to cell
transplantation
JOURNAL Patent: JP 2002533358-A 3 08-OCT-2002;
COMMENT ALG CO
OS Canis familiaris (dog)
PN JP 2002533358-A/3
PD 08-OCT-2002
PF 28-DEC-1999 JP 2000590482
PR 31-DEC-1998 US 09/224048
PI DAVID R. HURWITZ, VAN CHERINGTON, THEOPANIS GALANOPOULOS, PETER H
LEVINE,
PI JOEL S. GREENBERGER
PC A61K35/12, A61K35/28, A61K35/48, A61K48/00, A61P7/02, A61P7/04, PC
C12N5/06.
PC C12N15/09, C12N5/06, C12R1:91, C12N15/00, C12N5/00, C12N5/00,
PC C12R1:91.
CC Method for attenuating harmful side-effects related CC to
cell transplantation
FH Key Location/Qualifiers
FT source 1..15
FEATURES
source Location/Qualifiers
1..15
/organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"

Query Match 0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1286 GGACCATGAAGACC 1299
Db 15 GGGCCATGAAGACC 2

RESULT 109
120453/c 15 bp DNA linear PAT 07-OCT-1996
LOCUS Sequence 32 from patent US 5514577.
DEFINITION 120453
ACCESSION 120453
VERSION 120453.1 GI:1600808
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Draper,K.G., Crooke,S.T., Mirabelli,C.K., Ecker,D.J., Hanecek,R.C.,
Anderson,K.P., Brown-Driver,V.L. and Wyatt,J.R.
TITLE Oligonucleotide therapies for modulating the effects of herpes
viruses
JOURNAL Patent: US 5514577-A 32 07-MAY-1996;
FEATURES Location/Qualifiers

source 1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1444 CTATGTTTGTAGTTT 1457
Db 1 CTATGTTTGTAGTTT 14

RESULT 111
AR209754/c 15 bp DNA linear PAT 20-JUN-2002
LOCUS AR209754
DEFINITION Sequence 5 from patent US 6387366.
ACCESSION AR209754
VERSION AR209754.1 GI:21511806
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Hurwitz,D.R., Cherington,V., Galanopoulos,T., Levine,P.H. and
Greenberger,J.S.
TITLE Methods for reducing adverse side effects associated with cellular
transplantation
JOURNAL Patent: US 6387366-A 5 14-MAY-2002;
FEATURES Location/Qualifiers
source 1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1286 GGACCATGAAGACC 1299
Db 15 GGGCCATGAAGACC 2

RESULT 112
AX032573/c

```

LOCUS AX032573 15 bp DNA linear PAT 20-SEP-2000  
 DEFINITION Sequence 19 from Patent EP1016715.  
 ACCESSION AX032573  
 VERSION AX032573.1 GI:10279511  
 KEYWORDS  
 SOURCE unidentified  
 ORGANISM unclassified.

REFERENCE 1  
 AUTHORS Imbach,J.L., Brown-Driver,V.L., Vickers,T.A., Ecker,D.J., Bennett,C.F., Chiang,M.Y., Anderson,K.P., Hanecak,R.C. and Wyatt,J.R.  
 TITLE Oligonucleotides having a conserved 94 core sequence  
 JOURNAL Patent: EP 1016715-A 19 05-JUL-2000;  
 FEATURES Location/Qualifiers  
 source 1..15  
 /organism="unidentified"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
 Best Local Similarity 92.9%; Pred. No. 55;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 686 GCCCGCATGGCGG 699  
 Db 14 GCCCGCATGGCGG 1

RESULT 113  
 AX633116/c  
 LOCUS AX633116 15 bp RNA linear PAT 21-FEB-2003  
 DEFINITION Sequence 255 from Patent EP1260586.  
 ACCESSION AX633116  
 VERSION AX633116.1 GI:28468730  
 KEYWORDS  
 SOURCE unidentified  
 ORGANISM unclassified.

REFERENCE 1  
 AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpeisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.  
 TITLE Method and reagent for inhibiting the expression of disease related genes  
 JOURNAL Patent: EP 1260586-A 255 27-NOV-2002;  
 FEATURES Location/Qualifiers  
 source 1..15  
 /organism="unidentified"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
 Best Local Similarity 92.9%; Pred. No. 55;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAAATATAA 1169  
 Db 15 AAATAACAAATATAA 2

RESULT 114  
 AX636811  
 LOCUS AX636811 15 bp RNA linear PAT 21-FEB-2003  
 DEFINITION Sequence 3950 from Patent EP1260586.  
 ACCESSION AX636811  
 VERSION AX636811.1 GI:28472425  
 KEYWORDS  
 SOURCE unidentified

ORGANISM unidentified  
 REFERENCE unclassified.  
 AUTHORS 1  
 Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpeisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.  
 TITLE Method and reagent for inhibiting the expression of disease related genes  
 JOURNAL Patent: EP 1260586-A 3950 27-NOV-2002;  
 FEATURES Location/Qualifiers  
 source 1..15  
 /organism="unidentified"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
 Best Local Similarity 92.9%; Pred. No. 55;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1522 TCCTGTCTCCAGAT 1535  
 Db 2 TCCTGTCTCCAGAT 15

RESULT 115  
 AX636868/c  
 LOCUS AX636868 15 bp RNA linear PAT 21-FEB-2003  
 DEFINITION Sequence 4007 from Patent EP1260586.  
 ACCESSION AX636868  
 VERSION AX636868.1 GI:28472482  
 KEYWORDS  
 SOURCE unidentified  
 ORGANISM unclassified.

REFERENCE 1  
 AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpeisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.  
 TITLE Method and reagent for inhibiting the expression of disease related genes  
 JOURNAL Patent: EP 1260586-A 4007 27-NOV-2002;  
 FEATURES Location/Qualifiers  
 source 1..15  
 /organism="unidentified"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
 Best Local Similarity 92.9%; Pred. No. 55;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAAATATAA 1169  
 Db 15 AAATAACAAATATAA 2

RESULT 116  
 AX636870/c  
 LOCUS AX636870 15 bp RNA linear PAT 21-FEB-2003  
 DEFINITION Sequence 4009 from Patent EP1260586.  
 ACCESSION AX636870  
 VERSION AX636870.1 GI:28472484  
 KEYWORDS  
 SOURCE unidentified  
 ORGANISM unclassified.

REFERENCE 1

AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.

TITLE Method and reagent for inhibiting the expression of disease related genes

JOURNAL RIBOZYME PHARMACEUTICALS, INC. (US)

FEATURES source 1..15 /organism="unidentified" /mol\_type="unassigned RNA" /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15; Best Local Similarity 92.9%; Pred. No. 55; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATACAAATATAA 1169  
|||||  
14 AAATAATAATAA 1

Db

RESULT 117  
AX637407/c  
LOCUS AX637407 15 bp RNA linear PAT 21-FEB-2003  
DEFINITION Sequence 4546 from Patent EPI260586.  
ACCESSION AX637407  
VERSION AX637407.1 GI:28473021  
KEYWORDS  
SOURCE unidentified  
ORGANISM unclassified.

REFERENCE 1  
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.

TITLE Method and reagent for inhibiting the expression of disease related genes

JOURNAL RIBOZYME PHARMACEUTICALS, INC. (US)

FEATURES source 1..15 /organism="unidentified" /mol\_type="unassigned RNA" /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15; Best Local Similarity 92.9%; Pred. No. 55; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATACAAATATAA 1169  
|||||  
15 AAATAATAATAA 2

Db

RESULT 118  
AX637409/c  
LOCUS AX637409 15 bp RNA linear PAT 21-FEB-2003  
DEFINITION Sequence 4548 from Patent EPI260586.  
ACCESSION AX637409  
VERSION AX637409.1 GI:28473023  
KEYWORDS  
SOURCE unidentified  
ORGANISM unclassified.

REFERENCE 1  
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A., Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,

Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,T.

TITLE Method and reagent for inhibiting the expression of disease related genes

JOURNAL RIBOZYME PHARMACEUTICALS, INC. (US)

FEATURES source 1..15 /organism="unidentified" /mol\_type="unassigned RNA" /db\_xref="taxon:32644"

Query Match 0.6%; Score 12.4; DB 1; Length 15; Best Local Similarity 92.9%; Pred. No. 55; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAATAATAA 1169  
|||||  
14 AAATAATAATAA 1

Db

RESULT 119  
AX757371/c  
LOCUS AX757371 17 bp DNA linear PAT 25-JUN-2003  
DEFINITION Sequence 692 from Patent WO03040369.  
ACCESSION AX757371  
VERSION AX757371.1 GI:32251987  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens

REFERENCE 1  
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.

TITLE Sequences involved in tumoral suppression, tumoral reversion, apoptosis and/or viral resistance phenomena and their use as medicines

JOURNAL Patent: WO 03040369-A 692 15-MAY-2003; Molecular Engines Laboratories (PR)

FEATURES source 1..17 /organism="Homo sapiens" /mol\_type="unassigned DNA" /db\_xref="taxon:9606"

Query Match 0.5%; Score 10.6; DB 1; Length 17; Best Local Similarity 76.5%; Pred. No. 1.2e+02; Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1957 TGTGTTTAAAGGCTC 1973  
|||||  
17 TGTGTTTAAATGGATC 1

Db

RESULT 120  
AR096037/c  
LOCUS AR096037 29 bp DNA linear PAT 08-SEP-2000  
DEFINITION Sequence 3 from patent US 6005086.  
ACCESSION AR096037  
VERSION AR096037.1 GI:10024472  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 29)  
AUTHORS Evans,R.M., Forman,B.M. and Weinberger,C.A.

TITLE Farnesoid activated receptor polypeptides, and nucleic acid encoding the same

JOURNAL Patent: US 6005086-A 3 21-DEC-1999;

FEATURES source 1..29 /organism="unknown" /mol\_type="unassigned DNA"



```

Query Match          0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 1.2e+02;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCATGCTTTCTCTGAAAGG 1318
DB 28 TGAAGAACMCTTGCAGCCTCACAGG 2

RESULT 121
LOCUS AR217415 29 bp DNA linear PAT 25-SEP-2002
DEFINITION Sequence 3 from patent US 6416957.
ACCESSION AR217415
VERSION AR217415.1 GI:23317106
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 29)
AUTHORS Evans,R.M., Forman,B.M. and Weinberger,C.A.
TITLE Method for modulating process mediated by farnesoid activated
JOURNAL Patent: US 6416957-A 3 09-JUL-2002;
FEATURES Location/Qualifiers
source 1..29
/mol_type="unassigned DNA"

Query Match          0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 1.2e+02;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCATGCTTTCTCTGAAAGG 1318
DB 28 TGAAGAACMCTTGCAGCCTCACAGG 2

RESULT 122
LOCUS BD257498/c 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD257498
VERSION BD257498.1 GI:33067268
KEYWORDS JP 2002541795-A/5291.
SOURCE unidentified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and McSwiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 5291 10-DEC-2002;
COMMENT REOZYME PHARMACEUTICALS INC
OS Eukaryote
PN JP 2002541795-A/5291
PD 10-DEC-2002
PR 11-APR-2000 JP 2000611654
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules PH
Key
FT source 1..17
/organism='Eukaryote'.
FEATURES Location/Qualifiers

```

```

source 1..17
/organism='unidentified'
/mol_type='genomic DNA'
/db_xref='taxon:32644'

Query Match          0.5%; Score 10.4; DB 1; Length 17;
Best Local Similarity 91.7%; Pred. No. 1.3e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1194 GAAGAAAATTTT 1205
DB 12 GAAGAACTTTT 1

RESULT 123
LOCUS AX770644 21 bp DNA linear PAT 02-JUL-2003
DEFINITION Sequence 3 from Patent WO03033736.
ACCESSION AX770644
VERSION AX770644.1 GI:32437947
KEYWORDS
SOURCE Oryza sp.
ORGANISM Oryza sp.
REFERENCE Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
AUTHORS Sardesai,N., Kumar,A., Nair,S. and Mohan,M.
TITLE Fine mapping and application of dna markers linked to a gall midge
JOURNAL resistance gene for marker-aided selection in rice
Patent: WO 03033736-A 3 24-APR-2003;
International Centre for Genetic Engineering and Biotechnology (IN)
FEATURES Location/Qualifiers
source 1..21
/organism='Oryza sp.'
/mol_type='unassigned DNA'
/db_xref='taxon:52841'

Query Match          0.5%; Score 10.4; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1513 CAATTGTTATCCTCTCTCCA 1532
DB 1 CATTCTAATCTCTTCTTCA 20

RESULT 124
LOCUS I35238 15 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 206 from patent US 5599706.
ACCESSION I35238
VERSION I35238.1 GI:2088206
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Stinchcomb,D.T., McSwiggen,J., Newton,R.S. and Ramharack,R.
TITLE Ribozymes targeted to apo(a) mRNA
JOURNAL Patent: US 5599706-A 206 04-FEB-1997;
FEATURES Location/Qualifiers
source 1..15
/organism='unknown'
/mol_type='unassigned DNA'

Query Match          0.5%; Score 10.2; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 1.3e+02;
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 799 GTTCTTTCAGGAGAA 813
DB 1 GCTTCTTCTGAAGAA 15

```

RESULT 125  
AR133937/c  
LOCUS AR133937 15 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 2362 from patent US 6194150.  
ACCESSION AR133937  
VERSION AR133937.1 GI:14122842  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 15)  
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.  
TITLE Nucleic acid based inhibition of CD40  
JOURNAL Patent: US 6194150-A 2362 27-FEB-2001;  
FEATURES  
source 1..15  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 0.5%; Score 10.2; DB 1; Length 15;  
Best Local Similarity 80.0%; Pred.No.1.3e+02;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 645 CAGGGAGAACTGAG 659  
||| |||||  
Db 15 CAGGTAGAACCCAG 1  
Search completed: April 8, 2004, 15:19:54  
Job time : 4 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 8, 2004, 15:24:46 ; Search time 2 Seconds  
(without alignments)

2.899 Million cell updates/sec

Title: us-10-002-491-3

Perfect score: 2218

Sequence: 1 acgagactctctctctcc.....aaaaaaaaaaaaaaaaaa 2218

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 79 seqs, 1307 residues

Total number of hits satisfying chosen parameters: 158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : rniadb.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	23.6	1.1	29	US-08-372-183-3	Sequence 3, Appli
2	23.6	1.1	29	US-08-469-721-3	Sequence 3, Appli
3	23.6	1.1	29	US-09-696-443-3	Sequence 3, Appli
4	23.6	1.1	29	PCT-US95-17023-3	Sequence 3, Appli
5	19	0.9	23	US-08-134-557D-4	Sequence 4, Appli
6	15.4	0.7	17	US-08-866-108A-9953	Sequence 9953, Ap
7	14.4	0.6	17	US-08-372-124A-962	Sequence 962, App
8	14.4	0.6	17	US-08-373-124A-964	Sequence 964, App
9	14.4	0.6	17	US-08-435-628-962	Sequence 964, App
10	14.4	0.6	17	US-08-435-628-964	Sequence 964, App
11	14.4	0.6	17	US-08-584-040-4363	Sequence 4363, Ap
12	14.4	0.6	17	US-09-371-772B-2130	Sequence 2130, Ap
13	14.4	0.6	17	US-09-371-772B-6910	Sequence 6910, Ap
14	14.4	0.6	17	US-08-866-108A-9952	Sequence 9952, Ap
15	14.4	0.6	17	US-08-866-108A-9954	Sequence 9954, Ap
16	13.8	0.6	17	US-08-373-124A-966	Sequence 966, App
17	13.8	0.6	17	US-08-373-124A-1032	Sequence 1032, Ap
18	13.8	0.6	17	US-08-373-124A-1034	Sequence 1034, Ap
19	13.8	0.6	17	US-08-435-628-966	Sequence 966, App
20	13.8	0.6	17	US-08-435-628-1032	Sequence 1032, Ap
21	13.8	0.6	17	US-08-435-628-1034	Sequence 1034, Ap
22	13.8	0.6	17	US-08-985-162-292	Sequence 292, App
23	13.8	0.6	17	US-08-584-040-2238	Sequence 2238, Ap
24	13.8	0.6	17	US-08-584-040-2565	Sequence 2565, Ap
25	13.8	0.6	17	US-08-584-040-2706	Sequence 2706, Ap
26	13.8	0.6	17	US-09-614-034-111	Sequence 111, App
27	13.8	0.6	17	US-09-371-772B-783	Sequence 783, App
28	13.8	0.6	17	US-09-371-772B-1089	Sequence 1089, Ap
29	13.8	0.6	17	US-09-371-772B-1230	Sequence 1230, Ap
30	13.8	0.6	17	US-09-371-772B-5172	Sequence 5172, Ap
31	13.8	0.6	17	US-09-371-772B-6911	Sequence 6911, Ap
32	13.8	0.6	17	US-09-401-063-292	Sequence 292, App
33	13.8	0.6	17	US-09-866-108A-2258	Sequence 2258, Ap

## ALIGNMENTS

RESULT 1

34	13.8	0.6	17	1	US-09-866-108A-9955	Sequence 9955, Ap
35	13.8	0.6	17	1	US-09-866-108A-9956	Sequence 9956, Ap
36	13.4	0.6	15	1	US-08-311-760A-206	Sequence 206, App
37	13.4	0.6	15	1	US-08-774-310-206	Sequence 206, App
38	13	0.6	14	1	US-08-666-341A-66	Sequence 66, Appl
39	13	0.6	15	1	US-08-182-568A-464	Sequence 464, App
40	13	0.6	15	1	US-08-774-306A-464	Sequence 464, App
41	13	0.6	15	1	US-08-585-684B-2362	Sequence 2362, Ap
42	13	0.6	15	1	US-09-064-156A-464	Sequence 464, App
43	13	0.6	15	1	US-09-038-073-2362	Sequence 2362, Ap
44	12.8	0.6	16	1	US-08-954-210-21	Sequence 21, Appl
45	12.8	0.6	16	1	US-09-431-419A-21	Sequence 21, Appl
46	12.8	0.6	16	1	US-08-614-034-103	Sequence 103, App
47	12.4	0.6	14	1	US-08-173-489C-185	Sequence 185, App
48	12.4	0.6	14	1	US-08-173-489C-197	Sequence 197, App
49	12.4	0.6	15	1	US-08-031-147A-32	Sequence 32, Appl
50	12.4	0.6	15	1	US-08-373-124A-72	Sequence 72, Appl
51	12.4	0.6	15	1	US-08-363-240A-60	Sequence 60, Appl
52	12.4	0.6	15	1	US-08-311-486C-166	Sequence 166, App
53	12.4	0.6	15	1	US-08-311-486C-195	Sequence 195, App
54	12.4	0.6	15	1	US-08-311-486C-196	Sequence 196, App
55	12.4	0.6	15	1	US-08-311-486C-719	Sequence 719, App
56	12.4	0.6	15	1	US-08-311-486C-720	Sequence 720, App
57	12.4	0.6	15	1	US-08-435-628-72	Sequence 72, Appl
58	12.4	0.6	15	1	US-08-292-620A-223	Sequence 223, App
59	12.4	0.6	15	1	US-08-585-684B-630	Sequence 630, App
60	12.4	0.6	15	1	US-08-585-684B-631	Sequence 631, App
61	12.4	0.6	15	1	US-08-585-684B-632	Sequence 632, App
62	12.4	0.6	15	1	US-08-403-888A-19	Sequence 19, Appl
63	12.4	0.6	15	1	US-09-071-845-223	Sequence 223, App
64	12.4	0.6	15	1	US-09-038-073-630	Sequence 630, App
65	12.4	0.6	15	1	US-09-038-073-631	Sequence 631, App
66	12.4	0.6	15	1	US-09-038-073-632	Sequence 632, App
67	12.4	0.6	15	1	US-09-224-048A-5	Sequence 5, Appli
68	12.4	0.6	15	1	PCT-US94-02471-32	Sequence 32, Appl
69	12	0.5	13	1	US-08-441-887A-134	Sequence 134, App
70	12	0.5	15	1	US-08-182-968A-428	Sequence 428, App
71	12	0.5	15	1	US-08-074-879-7	Sequence 7, Appli
72	12	0.5	15	1	US-08-468-057A-7	Sequence 7, Appli
73	12	0.5	15	1	US-08-963-933-13	Sequence 13, Appl
74	12	0.5	15	1	US-08-774-306A-428	Sequence 428, App
75	12	0.5	15	1	US-09-064-156A-428	Sequence 428, App
76	12	0.5	15	1	US-09-081-646-116	Sequence 116, App
77	12	0.5	15	1	US-09-081-646-822	Sequence 822, App
78	12	0.5	15	1	US-08-705-477E-43	Sequence 43, Appl
79	12	0.5	15	1	US-08-705-477E-48	Sequence 48, Appl
80	11.2	0.5	17	1	US-09-866-108A-9953	Sequence 9953, Ap
81	11.2	0.5	17	1	US-09-866-108A-9952	Sequence 9952, Ap
82	10.8	0.5	17	1	US-09-866-108A-9954	Sequence 9954, Ap
83	10.6	0.5	17	1	US-08-866-108A-9955	Sequence 9955, Ap
84	10.6	0.5	29	1	US-08-372-183-3	Sequence 3, Appli
85	10.6	0.5	29	1	US-09-696-443-3	Sequence 3, Appli
86	10.6	0.5	29	1	PCT-US95-17023-3	Sequence 3, Appli
87	10.6	0.5	29	1	US-08-311-760A-206	Sequence 206, App
88	10.2	0.5	15	1	US-08-774-310-206	Sequence 206, App
89	10.2	0.5	15	1	US-08-585-684B-2362	Sequence 2362, Ap
90	10.2	0.5	15	1	US-09-038-073-2362	Sequence 2362, Ap
91	10.2	0.5	15	1	US-08-311-486C-195	Sequence 195, App
92	10.2	0.5	15	1	US-08-311-486C-719	Sequence 719, App
93	10.2	0.5	15	1	US-08-292-620A-223	Sequence 223, App
94	10.2	0.5	15	1	US-08-071-845-223	Sequence 223, App
95	10.2	0.5	15	1	US-08-963-933-13	Sequence 13, Appl
96	10.2	0.5	15	1	US-08-311-486C-166	Sequence 166, App
97	10	0.5	15	1	US-08-373-124A-964	Sequence 964, App
98	10	0.5	17	1	US-08-373-124A-964	Sequence 964, App
99	10	0.5	17	1	US-08-435-628-962	Sequence 962, App
100	10	0.5	17	1	US-08-435-628-962	Sequence 962, App

```
US-08-372-183-3  
; Sequence 3, Application US/09372183  
; Patent No. 6005086  
; GENERAL INFORMATION:  
; APPLICANT: Evans, Ronald M.  
; APPLICANT: Forman, Barry M.  
; APPLICANT: Weinberger, Cary A.  
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED  
; BY FARNESOIDS ACTIVATED RECEPTORS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark  
; STREET: 444 South Flower Street, Suite 2000  
; CITY: Los Angeles  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/372,183  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reiter, Stephen E.  
; REGISTRATION NUMBER: 31,192  
; REFERENCE/DOCKET NUMBER: P41 9844  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-546-4737  
; TELEFAX: 619-546-9392  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 29 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid;  
; DESCRIPTION: Oligonucleotide  
; APPLICATION NUMBER: US/08/372,183  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reiter, Stephen E.  
; REGISTRATION NUMBER: 31,192  
; REFERENCE/DOCKET NUMBER: P41 9844  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-546-4737  
; TELEFAX: 619-546-9392  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 29 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid;  
; DESCRIPTION: Oligonucleotide  
US-08-372-183-3
```

```
Query Match          1.1%; Score 23.6; DB 1; Length 29;  
Best Local Similarity 82.1%; Pred. No. 1.4;  
Matches      23; Conservative    3; Mismatches   2; Indels     0; Gaps      0;
```

```
QY       780 ACTGTGAGGGTGTAAGAAGTTCTTCA 807  
         |||||||  
DB        1 ACCTGTGAGGGTCGAARGKYTTCTTCA 28
```

```
RESULT 3  
US-09-696-443-3  
; Sequence 3, Application US/09696443  
; Patent No. 6416957  
; GENERAL INFORMATION:  
; APPLICANT: Evans, Ronald M.  
; APPLICANT: Forman, Barry M.  
; APPLICANT: Weinberger, Cary A.  
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED  
; BY FARNESOIDS ACTIVATED RECEPTORS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark  
; STREET: 444 South Flower Street, Suite 2000  
; CITY: Los Angeles  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/696,443  
; FILING DATE: 24-Oct-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION NUMBER: 08/372,183  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reiter, Stephen E.  
; REGISTRATION NUMBER: 31,192  
; REFERENCE/DOCKET NUMBER: P41 9844  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-546-4737  
; TELEFAX: 619-546-9392  
; INFORMATION FOR SEQ ID NO: 3:
```

```
US-08-372-183-3
```

```
Query Match          1.1%; Score 23.6; DB 1; Length 29;  
Best Local Similarity 82.1%; Pred. No. 1.4;  
Matches      23; Conservative    3; Mismatches   2; Indels     0; Gaps      0;
```

```
QY       780 ACTGTGAGGGTGTAAGAAGTTCTTCA 807  
         |||||||  
DB        1 ACCTGTGAGGGTCGAARGKYTTCTTCA 28
```

```
RESULT 2  
US-09-469-721-3  
; Sequence 3, Application US/09469721  
; Patent No. 6184353  
; GENERAL INFORMATION:  
; APPLICANT: Evans, Ronald M.  
; APPLICANT: Forman, Barry M.  
; APPLICANT: Weinberger, Cary A.  
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED  
; BY FARNESOIDS ACTIVATED RECEPTORS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark  
; STREET: 444 South Flower Street, Suite 2000  
; CITY: Los Angeles  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: IBM PC compatible  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/469,721  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reiter, Stephen E.  
; REGISTRATION NUMBER: 31,192  
; REFERENCE/DOCKET NUMBER: P41 9844  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-546-4737  
; TELEFAX: 619-546-9392  
; INFORMATION FOR SEQ ID NO: 3:
```

```
US-08-372-183-3
```





; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-373-124A-964

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 19;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1454 TTTTATAAAAGTATT 1469  
DB 16 TTTTATAAAACTATT 1

RESULT 9  
US-08-435-628-962/c  
; Sequence 962, Application US/08435628  
; Patent No. 5817796  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/435,628  
; FILING DATE: 05-MAY-1995  
; CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/373,124  
; FILING DATE: January 13, 1995  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 08/192,943  
; FILING DATE: February 7, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; APPLICATION NUMBER: 07/936,422  
; FILING DATE: August 26, 1992

ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/035  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 962:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 19;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1454 TTTTATAAAAGTATT 1469  
DB 17 TTTTATAAAACTATT 2

RESULT 10  
US-08-435-628-964/c  
; Sequence 964, Application US/08435628  
; Patent No. 5817796  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/435,628  
; FILING DATE: 05-MAY-1995  
; CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/373,124  
; FILING DATE: January 13, 1995  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 08/192,943  
; FILING DATE: February 7, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; APPLICATION NUMBER: 07/936,422  
; FILING DATE: August 26, 1992

ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/035  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 964:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 19;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1454 TTTTATAAAAGTATT 1469  
DB 16 TTTTATAAAACTATT 1

```
RESULT 11
US-08-584-040-4363
; Sequence 4363, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4363:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-584-040-4363

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 75.0%; Pred. No. 19;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1612 AGATTCCAGCCTGA 1627
Db 2 AGAUUCCAGCCUGA 17

RESULT 12
US-09-371-772B-2130
; Sequence 2130, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
```

```
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 2130
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-2130

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 75.0%; Pred. No. 19;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1612 AGATTCCAGCCTGA 1627
Db 2 AGAUUCCAGCCUGA 17

RESULT 13
US-09-371-772B-6910
; Sequence 6910, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 6910
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-6910

Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 75.0%; Pred. No. 19;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1612 AGATTCCAGCCTGA 1627
Db 1 AGAUUCCAGCCUGA 16

RESULT 14
US-09-866-108A-9952
; Sequence 9952, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
```



```

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AROMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aromica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9952
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9952

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 19;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1072 GGGGAAACTGACT 1087
Db 2 GGGGAAACTGAGCT 17

RESULT 15
US-09-866-108A-9954
; Sequence 9954, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AROMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30

```

```

; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aromica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9954
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9954

Query Match      0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 19;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1073 GGGGAAACTGACTC 1088
Db 1 GGGGAAACTGAGCTC 16

RESULT 16
US-08-373-124A-966/C
; Sequence 966, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 966:

```

SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-373-124A-966

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 25;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1452 AGTTTATATAAAGTAT 1468  
 DB 17 ATTTTATAAAACTAT 1

RESULT 17

US-08-373-124A-1032  
 ; Sequence 1032, Application US/08373124A  
 ; Patent No. 5646042  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stinchcomb, Dan T.  
 ; APPLICANT: Draper, Kenneth  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Jarvis, Thale  
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
 ; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
 ; TITLE OF INVENTION: CANCER USING RIBOZYMES  
 ; NUMBER OF SEQUENCES: 2627  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/373,124A  
 ; FILING DATE: January 13, 1995  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/245,466  
 ; FILING DATE: May 18, 1994  
 ; APPLICATION NUMBER: 08/192,943  
 ; FILING DATE: February 7, 1994  
 ; APPLICATION NUMBER: 07/987,132  
 ; FILING DATE: December 7, 1992  
 ; APPLICATION NUMBER: 07/936,422  
 ; FILING DATE: August 26, 1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 209/035  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 1032:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-373-124A-1032

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 58.8%; Pred. No. 25;

Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
 QY 1268 ACCAGGATTCAGACTT 1284  
 DB 1 ACUAGAUUUCAGACUU 17

RESULT 18

US-08-373-124A-1034  
 ; Sequence 1034, Application US/08373124A  
 ; Patent No. 5646042  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stinchcomb, Dan T.  
 ; APPLICANT: Draper, Kenneth  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Jarvis, Thale  
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
 ; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
 ; TITLE OF INVENTION: CANCER USING RIBOZYMES  
 ; NUMBER OF SEQUENCES: 2627  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/373,124A  
 ; FILING DATE: January 13, 1995  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/245,466  
 ; FILING DATE: May 18, 1994  
 ; APPLICATION NUMBER: 08/192,943  
 ; FILING DATE: February 7, 1994  
 ; APPLICATION NUMBER: 07/987,132  
 ; FILING DATE: December 7, 1992  
 ; APPLICATION NUMBER: 07/936,422  
 ; FILING DATE: August 26, 1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 209/035  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 1034:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-373-124A-1034

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 52.9%; Pred. No. 25;  
 Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1269 CCAGGATTCAGACTT 1285  
 DB 1 CUAGAUUUCAGACUU 17

RESULT 19

US-08-435-628-966/c

```

; Sequence 966, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 966:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-828-966

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1452 AGTTTATATAAAGTAT 1468
Db 17 ATTTTATATAAAGTAT 1

RESULT 20
US-08-435-628-1032
; Sequence 1032, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James

```

```

; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1032:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-628-1032

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 25;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1268 ACCAGGATTCAGACTT 1284
Db 1 ACUAGUUAUUCAGACUU 17

RESULT 21
US-08-435-628-1034
; Sequence 1034, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 955-0440
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1034:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-628-1034

```

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 52.9%; Pred. No. 25;  
 Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

```

QY 1269 CCAGGATTTCAGACTT 1285
DB 1 CUAGUUAUUCAGACUU 17

```

```

RESULT 22
; US-08-985-162-292/c
; Sequence 292, Application US/08985162
; Patent No. 60571156
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.

```

```

; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,162
; FILING DATE: 04 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 292:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-985-162-292

```

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 25;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

QY 718 AAGGGCATGAGCTGTGT 734
DB 17 AAGGGCATGAGCTGTGT 1

```

```

RESULT 23
; US-08-584-040-2238
; Sequence 2238, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:

```

```

; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2238:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-584-040-2238

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 25;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1101 CAGACTCTTCTACATTT 1117
DB 1 CUGACCCUUCUACAUU 17

RESULT 24
US-08-584-040-2565
; Sequence 2565, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2565:
; SEQUENCE CHARACTERISTICS:

```

```

; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-584-040-2565

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 25;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1159 TAACAAATAAAATTTTA 1175
DB 1 UAACAAUAAACCUUA 17

RESULT 25
US-08-584-040-2706/c
; Sequence 2706, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2706:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-584-040-2706

Query Match      0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1450 TTAGTTTTTATAAAGT 1466

```



```
RESULT 30
US-09-371-772B-5172
; Sequence 5172, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT FILING DATE: 1999-08-10
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5172
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5172
Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 25;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1103 GACTCTCTACATTTTA 1119
DB 1 GACCCUUCACAUUGA 17

RESULT 31
US-09-371-772B-6911
; Sequence 6911, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6911
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-6911
Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 25;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1613 GATTCACGAGCTGAAA 1629
DB 1 GAUUCUCCAGCCUGACA 17

RESULT 32
US-09-401-063-292/c
; Sequence 292, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401.063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 292:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-292
Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 718 AAGGGCATGAGCTGTGT 734
DB 17 AAGGGCATGAGCTGTGT 1

RESULT 33
US-09-866-108A-2258/c
; Sequence 2258, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: Ji, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
```

```
FILE REFERENCE: AROMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108A
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 15755
SOFTWARE: Aromica Sequence Listing Engine
Patent No. 6686188
SEQ ID NO 2258
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
US-09-866-108A-2258

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1017 CAAGACAGTGAAGTGG 1033
DB 17 GAGGACAGTGAAGTGG 1

RESULT 34
US-09-866-108A-9955
Sequence 9955, Application US/09866108A
Patent No. 6686188
GENERAL INFORMATION:
APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharron G.
APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AROMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108A
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 15755
SOFTWARE: Aromica Sequence Listing Engine
Patent No. 6686188
SEQ ID NO 2258
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
US-09-866-108A-2258
```

```
FILE REFERENCE: AROMICA-7
CURRENT APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 15755
SOFTWARE: Aromica Sequence Listing Engine
Patent No. 6686188
SEQ ID NO 9955
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
US-09-866-108A-9955

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1074 GAGAAACTGAACCTAC 1090
DB 1 GAGAAACTGAGCTCTC 17

RESULT 35
US-09-866-108A-9956
Sequence 9956, Application US/09866108A
Patent No. 6686188
GENERAL INFORMATION:
APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharron G.
APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AROMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108A
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 15755
SOFTWARE: Aromica Sequence Listing Engine
Patent No. 6686188
SEQ ID NO 9956
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
US-09-866-108A-9956

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1017 CAAGACAGTGAAGTGG 1033
DB 17 GAGGACAGTGAAGTGG 1

RESULT 34
US-09-866-108A-9955
Sequence 9955, Application US/09866108A
Patent No. 6686188
GENERAL INFORMATION:
APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharron G.
APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AROMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108A
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 15755
SOFTWARE: Aromica Sequence Listing Engine
Patent No. 6686188
SEQ ID NO 2258
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
US-09-866-108A-2258
```

```
Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 25;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```



OY 1075 AGAACTGAAGTCTCC 1091  
 Db 1 AGAACTGAAGTCTCC 17

## RESULT 36

US-08-311-760A-206/c  
 ; Sequence 206, Application US/08311760A

; Patent No. 5599706

; GENERAL INFORMATION:

; APPLICANT: Stinchcomb, Dan T.

; APPLICANT: McSwiggen, James

; APPLICANT: Newton, Roger S.

; APPLICANT: Ramharack, Randy

; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES

; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF

; TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY

; TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN

; NUMBER OF SEQUENCES: 392

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; CITY: Suite 4700

; STATE: Los Angeles

; COUNTRY: California

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: FastSeq Version 1.5

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/311,760A

; FILING DATE: September 23, 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 208/155

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 206:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-311-760A-206

Query Match 0.6%; Score 13.4; DB 1; Length 15;

Best Local Similarity 93.3%; Pred. No. 21;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 801 TTCTTCAGAGAAGC 815

Db 15 TTCTTCAGAGAAGC 1

## RESULT 37

US-08-774-310-206/c

; Sequence 206, Application US/08774310

; Patent No. 587022

; GENERAL INFORMATION:

; APPLICANT: Stinchcomb, Daniel T.

; APPLICANT: McSwiggen, James

; APPLICANT: Newton, Roger S.  
 ; APPLICANT: Ramharack, Randy  
 ; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES  
 ; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF  
 ; TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY  
 ; TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN

; NUMBER OF SEQUENCES: 392

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; CITY: Suite 4700

; STATE: Los Angeles

; COUNTRY: California

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: FastSeq Version 1.5

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/774,310

; FILING DATE: December 23, 1996

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/311,760

; FILING DATE: September 23, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 223/229

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 206:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-774-310-206

Query Match 0.6%; Score 13.4; DB 1; Length 15;

Best Local Similarity 93.3%; Pred. No. 21;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 801 TTCTTCAGAGAAGC 815

Db 15 TTCTTCAGAGAAGC 1

## RESULT 38

US-08-666-341A-66

; Sequence 66, Application US/08666341A

; Patent No. 6365345

; GENERAL INFORMATION:

; APPLICANT: Antisense nucleic Acids for the

; TITLE OF INVENTION: prevention and treatment of disorders in which expression

; TITLE OF INVENTION: of c-erbB plays a role

; NUMBER OF SEQUENCES: 106

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Jacobson, Price, Holman and Stern, PLLC

; STREET: 400 Seventh street, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20004

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disc

; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/666,341A  
 FILING DATE: 15-AUG-1996  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA: EP 93120710.4  
 INFORMATION FOR SEQ ID NO: 66:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 14 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: DNA (genomic)  
 ANTI-SENSE: YES  
 US-08-666-341A-66

Query Match 0.6%; Score 13; DB 1; Length 14;  
 Best Local Similarity 100.0%; Pred. No. 21;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1632 CCTCAACACTTTG 1644  
 Db 2 CCTCAACACTTTG 14

RESULT 39  
 US-08-182-968A-464  
 ; Sequence 464, Application US/08182968A  
 ; Patent No. 5610054  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Draper, Kenneth G.  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR  
 ; TITLE OF INVENTION: INHIBITING HEPATITIS C  
 ; TITLE OF INVENTION: VIRUS REPLICATION  
 ; NUMBER OF SEQUENCES: 497  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; CITY: Suite 4700  
 ; STATE: Los Angeles  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/182,968A  
 ; FILING DATE: 13-JANUARY-1994  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 07/882,888  
 ; FILING DATE: 14-MAY-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 205/277  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 464:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 15  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; APPLICANT: Stinchcomb, Daniel T.  
 ; APPLICANT: Jarvis, Thale

Query Match 0.6%; Score 13; DB 1; Length 15;  
 Best Local Similarity 84.6%; Pred. No. 25;  
 Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGAAA 1158  
 Db 2 AUGCCUCAGAAA 14

RESULT 40  
 US-08-774-306A-464  
 ; Sequence 464, Application US/08774306A  
 ; Patent No. 5869253  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Draper, Kenneth G.  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR  
 ; TITLE OF INVENTION: INHIBITING HEPATITIS C  
 ; TITLE OF INVENTION: VIRUS REPLICATION  
 ; NUMBER OF SEQUENCES: 497  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; CITY: Suite 4700  
 ; STATE: Los Angeles  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/774,306A  
 ; FILING DATE: December 26, 1996  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/182,968  
 ; FILING DATE: January 13, 1994  
 ; APPLICATION NUMBER: 07/882,888  
 ; FILING DATE: May 14, 1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 223/227  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 464:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 15  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; APPLICANT: Stinchcomb, Daniel T.  
 ; APPLICANT: Jarvis, Thale

Query Match 0.6%; Score 13; DB 1; Length 15;  
 Best Local Similarity 84.6%; Pred. No. 25;  
 Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGAAA 1158  
 Db 2 AUGCCUCAGAAA 14

RESULT 41  
 US-08-585-684B-2362  
 ; Sequence 2362, Application US/08585684B  
 ; Patent No. 5877021  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stinchcomb, Daniel T.  
 ; APPLICANT: Jarvis, Thale

APPLICANT: McSwiggen, James  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: INDUCTION OF CRAFT TOLERANCE  
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 2751  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/585,684B  
FILING DATE: January 16, 1996  
PRIOR APPLICATION NUMBER: 60/000,951  
FILING DATE: July 7, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/078  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2362:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-585-684B-2362  
Query Match 0.6%; Score 13; DB 1; Length 15;  
Best Local Similarity 61.5%; Pred. No. 25;  
Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;  
Qy 561 CTGGGTTTCTACC 573  
Db 1 CUGGGUUUCUACC 13  
RESULT 42  
US-09-064-156A-464  
Sequence 464, Application US/09064156A  
Patent No. 6132966  
GENERAL INFORMATION:  
APPLICANT: Draper, Kenneth G.  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TITLE OF INVENTION: INHIBITING HEPATITIS C  
TITLE OF INVENTION: VIRUS REPLICATION  
NUMBER OF SEQUENCES: 498  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/064,156A  
FILING DATE: April 21, 1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/774,306  
FILING DATE: December 26, 1996  
APPLICATION NUMBER: 08/182,968  
FILING DATE: January 13, 1994  
APPLICATION NUMBER: 07/882,888  
FILING DATE: May 14, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 234/083  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 464:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-064-156A-464  
Query Match 0.6%; Score 13; DB 1; Length 15;  
Best Local Similarity 84.6%; Pred. No. 25;  
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
Qy 1146 ATGCCTCAGGAAA 1158  
Db 2 AUGCCUCAGGAAA 14  
RESULT 43  
US-09-038-073-2362  
Sequence 2362, Application US/09038073  
Patent No. 6194150  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: Jarvis, Thale  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: INDUCTION OF CRAFT TOLERANCE  
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 2751  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/038,073  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/585,684  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/078  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2362:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-038-073-2362  
Query Match 0.6%; Score 13; DB 1; Length 15;  
Best Local Similarity 61.5%; Pred. No. 25;  
Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;  
QY 561 CTGGTTTCTACC 573  
Db 1 CUGGUUUCUACC 13  
RESULT 44  
US-08-954-210-21  
Sequence 21, Application US/08954210  
Patent No. 6043077  
GENERAL INFORMATION:  
APPLICANT: Barber, Jack R.  
APPLICANT: Welch, Peter J.  
APPLICANT: Tritz, Richard  
APPLICANT: Yei, Soomin  
APPLICANT: Yu, Mang  
TITLE OF INVENTION: HEPATITIS C VIRUS RIBOZYMES  
NUMBER OF SEQUENCES: 73  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/954,210  
FILING DATE: 20-OCT-1997  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Mcmasters, David D.  
REGISTRATION NUMBER: 33,963  
REFERENCE/DOCKET NUMBER: 480124.403C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-954-210-21  
Query Match 0.6%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 68.8%; Pred. No. 33;  
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
QY 1314 AAAGGTCGCGGTG 1329  
Db 1 AUAGGGUCAGCGGUUG 16  
RESULT 45  
US-08-954-210-21  
Sequence 21, Application US/09431419A  
Patent No. 6458567  
GENERAL INFORMATION:  
APPLICANT: Barber, Jack R.  
APPLICANT: Welch, Peter J.  
APPLICANT: Tritz, Richard  
APPLICANT: Yei, Soomin  
APPLICANT: Yu, Mang  
TITLE OF INVENTION: HEPATITIS C VIRUS RIBOZYMES  
FILE REFERENCE: 480124.403C3  
CURRENT APPLICATION NUMBER: US/09/431,419A  
CURRENT FILING DATE: 1999-11-01  
NUMBER OF SEQ ID NOS: 73  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 16  
TYPE: DNA  
ORGANISM: Hepatitis C Virus  
US-09-431-419A-21  
Query Match 0.6%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 68.8%; Pred. No. 33;  
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
QY 1314 AAAGGTCGCGGTG 1329  
Db 1 AUAGGGUCAGCGGUUG 16  
RESULT 46  
US-09-614-034-103/c  
Sequence 103, Application US/09614034  
Patent No. 6489307  
GENERAL INFORMATION:  
APPLICANT: PHILLIPS, M. IAN  
APPLICANT: ZHANG, YUAN  
TITLE OF INVENTION: ANTISENSE COMPOSITIONS TARGETED TO BETAL-ADRENOCEPTOR-SPECIFIC MR  
FILE REFERENCE: 4300.013900  
CURRENT APPLICATION NUMBER: US/09/614,034  
CURRENT FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 09/152,717  
PRIOR FILING DATE: 1998-09-14  
PRIOR APPLICATION NUMBER: PCT/US99/21007  
PRIOR FILING DATE: 1999-09-14  
NUMBER OF SEQ ID NOS: 204  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 103  
LENGTH: 16  
TYPE: DNA  
ORGANISM: UNKNOWN  
FEATURE:  
OTHER INFORMATION: SYNTHETIC OLIGONUCLEOTIDE  
US-09-614-034-103  
Query Match 0.6%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 33;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 685 AGCCCGCATGGCGC 700  
Db 16 AGCTCGCATGGCGC 1  
RESULT 47  
US-08-173-489C-185  
Sequence 185, Application US/08173489C  
Patent No. 5861244  
GENERAL INFORMATION:  
APPLICANT: WANG, C. -G.  
APPLICANT: HEEBURN, A. G.  
TITLE OF INVENTION: GENETIC SEQUENCE ASSAY USING DNA

;; TITLE OF INVENTION: TRIPLE-STRAND FORMATION.

;; NUMBER OF SEQUENCES: 365

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: PROFILE DIAGNOSTIC SCIENCES, INC.,

;; STREET: 510 EAST 73RD STREET,

;; CITY: NEW YORK

;; STATE: NEW YORK

;; COUNTRY: USA

;; ZIP: 10021.

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: 3.5 inch, 1.44Mb storage

;; COMPUTER: IBM PC/XT/AT

;; OPERATING SYSTEM: MS-DOS version 6.2

;; SOFTWARE: Wordperfect Version 5.1

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/173,489C

;; FILING DATE: 22 DEC 1993

;; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: US 07/969,436

;; FILING DATE: 29 OCT 1992

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Handelman, Joseph H.

;; REGISTRATION NUMBER: 26,179

;; REFERENCE/DOCKET NUMBER: U9518-6

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: (attorney) (212) 708-1880

;; TELEFAX: (attorney) (212) 246-8959

;; INFORMATION FOR SEQ ID NO: 185:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 14 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: double stranded

;; TOPOLOGY: linear

;; MOLECULE TYPE: genomic DNA

;; DESCRIPTION: hepatitis B virus adw2 isolate,

;; DESCRIPTION: nucleotides 1810 to 1823

;; HYPOTHETICAL: no

;; ANTI-SENSE: no

;; ORIGINAL SOURCE:

;; ORGANISM: Hepatitis B virus

;; INDIVIDUAL ISOLATE: adw2

;; PUBLICATION INFORMATION:

;; AUTHORS: Valenzuela, P., Quiroga, M., Zaldivar, J.,

;; TITLE: The nucleotide sequence of

;; TITLE: the Hepatitis B viral genome and the

;; TITLE: identification of the major viral genes

;; JOURNAL: In "Animal Virus Genetics", Fields, B N,

;; JOURNAL: Jaenisch, R., Fox C F eds

;; VOLUME: 57-70

;; PAGES: 57-70

;; DATE: 1980

;; RELEVANT RESIDUES IN SEQ ID NO: 185 :FROM 1 TO 14

;; US-08-173-489C-185

Query Match

Best Local Similarity 0.6%; Score 12.4; DB 1; Length 14;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 536 TTCTCTGTCATCCT 549

Db 1 TTCTCTGTCATCCT 14

RESULT 48

US-08-173-489C-197

; Sequence 197, Application US/08173489C

; Patent No. 5861244

; GENERAL INFORMATION:

; APPLICANT: WANG, C.-G.

; APPLICANT: HEPBURN, A. G.

; TITLE OF INVENTION: GENETIC SEQUENCE ASSAY USING DNA

;; TITLE OF INVENTION: TRIPLE-STRAND FORMATION.

;; NUMBER OF SEQUENCES: 365

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: PROFILE DIAGNOSTIC SCIENCES, INC.,

;; STREET: 510 EAST 73RD STREET,

;; CITY: NEW YORK

;; STATE: NEW YORK

;; COUNTRY: USA

;; ZIP: 10021.

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: 3.5 inch, 1.44Mb storage

;; COMPUTER: IBM PC/XT/AT

;; OPERATING SYSTEM: MS-DOS version 6.2

;; SOFTWARE: Wordperfect Version 5.1

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/173,489C

;; FILING DATE: 22 DEC 1993

;; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: US 07/969,436

;; FILING DATE: 29 OCT 1992

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Handelman, Joseph H.

;; REGISTRATION NUMBER: 26,179

;; REFERENCE/DOCKET NUMBER: U9518-6

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: (attorney) (212) 708-1880

;; TELEFAX: (attorney) (212) 246-8959

;; INFORMATION FOR SEQ ID NO: 197:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 14 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: double stranded

;; TOPOLOGY: linear

;; MOLECULE TYPE: genomic DNA

;; DESCRIPTION: hepatitis B virus adr isolate,

;; DESCRIPTION: nucleotides 274 to 287

;; HYPOTHETICAL: no

;; ANTI-SENSE: no

;; ORIGINAL SOURCE:

;; ORGANISM: Hepatitis B virus

;; INDIVIDUAL ISOLATE: adr

;; PUBLICATION INFORMATION:

;; AUTHORS: Toneyama, T., Ohmoto, N, Matsubara, K.

;; TITLE: Cloning and structural

;; TITLE: analysis of Hepatitis B virus DNAs subtype adr

;; JOURNAL: Nucleic Acids Research

;; VOLUME: 11

;; PAGES: 4601-4610

;; DATE: 1983

;; RELEVANT RESIDUES IN SEQ ID NO: 197 :FROM 1 TO 14

;; US-08-173-489C-197

Query Match

Best Local Similarity 0.6%; Score 12.4; DB 1; Length 14;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 536 TTCTCTGTCATCCT 549

Db 1 TTCTCTGTCATCCT 14

RESULT 49

US-08-031-147A-32/c

; Sequence 32, Application US/08031147A

; Patent No. 5514577

; GENERAL INFORMATION:

; APPLICANT: Draper et al.

; TITLE OF INVENTION: Oligonucleotide Therapies for

; TITLE OF INVENTION: Modulating the Effects of Herpesviruses

; NUMBER OF SEQUENCES: 57

; CORRESPONDENCE ADDRESS:

```

; ADDRESSEE: Woodcock Washburn Kurtz
; ADDRESSEE: Mackiewicz & No. 5514577-is
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; COMPUTER: IBM PS/2 PC-DOS
; OPERATING SYSTEM: WORDPERFECT 5.1
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/031.147A
; FILING DATE: March 12, 1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 485,297
; FILING DATE: February 26, 1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 852,132
; FILING DATE: April 28, 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 954,185
; FILING DATE: September 29, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane Massey Licata
; REGISTRATION NUMBER: 32,257
; REFERENCE/DOCKET NUMBER: ISIS-0469
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ANTI-SENSE: yes
;
; US-08-031-147A-32

```

```

Query Match 0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 33;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 686 GCCCGCATGGCG 699
Db 14 GCCCGCATGGCG 1

```

```

RESULT 50
US-08-373-124A-72
; Sequence 72, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

```

```

; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 72:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-08-373-124A-72

```

```

Query Match 0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 28.6%; Pred. No. 33;
Matches 4; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1444 CTATGTTTGTGTTT 1457
Db 1 CUAGUUUUUUUU 14

```

```

RESULT 51
US-08-363-240A-60
; Sequence 60, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 60:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-363-240A-60

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 33;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1092 CCAGATCAACAGAC 1105  
DB 2 CCAGAUACACAC 15

RESULT 52  
US-08-311-486C-166  
; Sequence 166, Application US/08311486C  
; Patent No. 5811300  
; GENERAL INFORMATION:  
; APPLICANT: Sean Sullivan  
; APPLICANT: Kenneth Draper  
; APPLICANT: Kevin Kisich  
; APPLICANT: Dan T. Stinchcomb  
; APPLICANT: James McSwiggen  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; TITLE OF INVENTION: DISEASES OR CONDITIONS  
; TITLE OF INVENTION: RELATED TO LEVELS OF  
; TITLE OF INVENTION: TNF-  
; NUMBER OF SEQUENCES: 1157  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/311,486C  
; FILING DATE: September 23, 1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; PRIOR APPLICATION DATA: including application  
; PRIOR APPLICATION DATA: described below:  
; APPLICATION NUMBER: 08/008,895  
; FILING DATE: January 19, 1993  
; APPLICATION NUMBER: 07/989,849  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/166  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600

two

; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 166:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-311-486C-166

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 57.1%; Pred. No. 33;  
Matches 8; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1522 TCCTGTCTCCAGAT 1535  
DB 2 UCCUCUCCAGAU 15

RESULT 53  
US-08-311-486C-195/c  
; Sequence 195, Application US/08311486C  
; Patent No. 5811300  
; GENERAL INFORMATION:

; APPLICANT: Sean Sullivan  
; APPLICANT: Kenneth Draper  
; APPLICANT: Kevin Kisich  
; APPLICANT: Dan T. Stinchcomb  
; APPLICANT: James McSwiggen  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; TITLE OF INVENTION: DISEASES OR CONDITIONS  
; TITLE OF INVENTION: RELATED TO LEVELS OF  
; TITLE OF INVENTION: TNF-  
; NUMBER OF SEQUENCES: 1157  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/311,486C  
; FILING DATE: September 23, 1994  
; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:  
; PRIOR APPLICATION DATA: including application  
; PRIOR APPLICATION DATA: described below:

two

; APPLICATION NUMBER: 08/008,895  
; FILING DATE: January 19, 1993  
; APPLICATION NUMBER: 07/989,849  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/166  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 195:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-08-311-486C-195

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1156 AAATAACAATAAA 1169  
Db 15 AAATAACAATAAA 2

RESULT 54

US-08-311-486C-196/c  
; Sequence 196, Application US/08311486C  
; Patent No. 5811300  
; GENERAL INFORMATION:  
; APPLICANT: Sean Sullivan  
; APPLICANT: Kenneth Draper  
; APPLICANT: Kevin Kisich  
; APPLICANT: Dan T. Stinchcomb  
; APPLICANT: James McSwiggen  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; TITLE OF INVENTION: DISEASES OR CONDITIONS  
; TITLE OF INVENTION: RELATED TO LEVELS OF  
; TITLE OF INVENTION: TNF-  
; NUMBER OF SEQUENCES: 1157  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/311.486C  
FILING DATE: September 23, 1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below:  
APPLICATION NUMBER: 08/008,895  
FILING DATE: January 19, 1993  
APPLICATION NUMBER: 07/989,849  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 209/166  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 196:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

US-08-311-486C-196

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1156 AAATAACAATAAA 1169  
Db 15 AAATAACAATAAA 2

Db 14 AAATAACAATAAA 1

RESULT 55  
US-08-311-486C-719/c  
; Sequence 719, Application US/08311486C  
; Patent No. 5811300  
; GENERAL INFORMATION:  
; APPLICANT: Sean Sullivan  
; APPLICANT: Kenneth Draper  
; APPLICANT: Kevin Kisich  
; APPLICANT: Dan T. Stinchcomb  
; APPLICANT: James McSwiggen  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; TITLE OF INVENTION: DISEASES OR CONDITIONS  
; TITLE OF INVENTION: RELATED TO LEVELS OF  
; TITLE OF INVENTION: TNF-  
; NUMBER OF SEQUENCES: 1157  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/311.486C  
FILING DATE: September 23, 1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below:  
APPLICATION NUMBER: 08/008,895  
FILING DATE: January 19, 1993  
APPLICATION NUMBER: 07/989,849  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 209/166  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 719:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

US-08-311-486C-719

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1156 AAATAACAATAAA 1169  
Db 15 AAATAACAATAAA 2

RESULT 56  
US-08-311-486C-720/c  
; Sequence 720, Application US/08311486C  
; Patent No. 5811300  
; GENERAL INFORMATION:



APPLICANT: Sean Sullivan  
APPLICANT: Kenneth Draper  
APPLICANT: Kevin Kisch  
APPLICANT: Dan T. Stinchcomb  
APPLICANT: James McSwiggen  
TITLE OF INVENTION: RIBOZYME TREATMENT OF  
DISEASES OR CONDITIONS  
TITLE OF INVENTION: RELATED TO LEVELS OF  
TITLE OF INVENTION: TNF-  
NUMBER OF SEQUENCES: 1157  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/311,486C  
FILING DATE: September 23, 1994  
CLASSIFICATION: 435

PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below:  
APPLICATION NUMBER: 08/008,895  
FILING DATE: January 13, 1993  
APPLICATION NUMBER: 07/989,849  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 209/166  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 720:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-311-486C-720

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AAATAACAAATAAAA 1169  
Db 14 AAATAATAAATAAAA 1

RESULT 57  
US-08-435-628-72  
Sequence 72, Application US/08435628  
Patent No. 5817796  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Dan T.  
APPLICANT: Draper, Kenneth  
APPLICANT: McSwiggen, James  
APPLICANT: Jarvis, Thale  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
TREATMENT OF RESTENOSIS AND  
TITLE OF INVENTION: CANCER USING RIBOZYMES  
NUMBER OF SEQUENCES: 2627

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/435,628  
FILING DATE: 05-MAY-1995  
CLASSIFICATION: 514

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/373,124  
FILING DATE: January 13, 1995  
APPLICATION NUMBER: 08/245,466  
FILING DATE: May 18, 1994  
APPLICATION NUMBER: 08/192,943  
FILING DATE: February 7, 1994  
APPLICATION NUMBER: 07/987,132  
FILING DATE: December 7, 1992  
APPLICATION NUMBER: 07/936,422  
FILING DATE: August 26, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 209/035  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 72:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-435-628-72

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 28.6%; Pred. No. 33;  
Matches 4; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 1444 CTATGTTTAGTTT 1457  
Db 1 CUAUGUUUGUUU 14

RESULT 58  
US-08-292-620A-223/c  
Sequence 223, Application US/08292620A  
Patent No. 5837542  
GENERAL INFORMATION:  
APPLICANT: Susan Grimm  
APPLICANT: Dan T. Stinchcomb  
APPLICANT: James McSwiggen  
APPLICANT: Sean Sullivan  
APPLICANT: Kenneth G. Draper  
TITLE OF INVENTION: RIBOZYME TREATMENT OF  
DISEASES OR CONDITIONS  
TITLE OF INVENTION: RELATED TO LEVELS OF  
TITLE OF INVENTION: INTRACELLULAR ADHESION  
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)  
NUMBER OF SEQUENCES: 2390  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street



```
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-585-684B-631

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 33;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCCTATTATTCOA 558
Db 15 ATCCTATTATTCOA 2

RESULT 61
US-08-585-684B-632/c
; Sequence 632, Application US/08585684B
; Patent No. 5877021
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: Jarvis, Thale
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
; NUMBER OF SEQUENCES: 2751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/585,684B
; FILING DATE: January 16, 1996
; PRIOR APPLICATION NUMBER: 60/000,951
; FILING DATE: July 7, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 632:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-585-684B-632

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 33;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCCTATTATTCOA 558
Db 15 ATCCTATTATTCOA 2

RESULT 62
```

```
US-08-403-888A-19/c
; Sequence 19, Application US/08403888A
; Patent No. 5952490
; GENERAL INFORMATION:
; APPLICANT: Hancsak et al.
; TITLE OF INVENTION: Oligonucleotides Having A Conserved G4 Core
; NUMBER OF SEQUENCES: Sequence
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5952490ris LLP
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: U.S.A.
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch disk, 1.44 Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,888A
; FILING DATE: 12-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: 07/954,185
; FILING DATE: 29-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul K. Legaard
; REGISTRATION NUMBER: 38,534
; REFERENCE/DOCKET NUMBER: ISIS-1229
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-403-888A-19

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 33;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 686 GCCCGCATGGCG 699
Db 14 GCCCGCATGGCG 1

RESULT 63
US-09-071-845-223/c
; Sequence 223, Application US/09071845
; Patent No. 6132987
; GENERAL INFORMATION:
; APPLICANT: Susan Grimm
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwigen
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: INTRACELLULAR ADHESION
; TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
; NUMBER OF SEQUENCES: 2390
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
```



; TOPOLOGY: linear  
US-09-038-073-631

Query Match .0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCCTATTATTCGA 558  
|||||  
DB 15 ATCCTATTATTCGA 2

## RESULT 66

US-09-038-073-632/c  
; Sequence 632, Application US/09038073  
; Patent No. 6194150

; GENERAL INFORMATION:

; APPLICANT: Stinchcomb, Daniel T.

; APPLICANT: Jarvis, Thale

; APPLICANT: McSwigen, James

; TITLE OF INVENTION: METHOD AND REAGENT FOR THE

; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE

; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES

; NUMBER OF SEQUENCES: 2751

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; CITY: Los Angeles

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: FastSeq Version 1.5

; CURRENT APPLICATION DATA: US/09/038,073

; APPLICATION NUMBER: US/09/038,073

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/585,684

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 218/078

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 632:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-038-073-632

Query Match .0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCCTATTATTCGA 558  
|||||  
DB 15 ATCCTATTATTCGA 2

## RESULT 67

US-09-224-048A-5/c  
; Sequence 5, Application US/09224048A  
; Patent No. 6387366

; GENERAL INFORMATION:

; APPLICANT: Hurwitz, David R.

; APPLICANT: Cherington, Van

; APPLICANT: Galanopoulos, Theofanis

; APPLICANT: Levine, Peter H.

; APPLICANT: Greenberger, Joel S.

; TITLE OF INVENTION: METHOD FOR REDUCING ADVERSE SIDE EFFECTS ASSOCIATED

; TITLE OF INVENTION: WITH BONE MARROW CELL TRANSPLANTATION

; FILE REFERENCE: 07787/007001

; CURRENT APPLICATION NUMBER: US/09/224,048A

; CURRENT FILING DATE: 1998-12-31

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 5

; LENGTH: 15

; TYPE: DNA

; ORGANISM: Canis familiaris

US-09-224-048A-5

Query Match .0.6%; Score 12.4; DB 1; Length 15;

Best Local Similarity 92.9%; Pred. No. 33;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1286 GGACCATGAGACC 1299

|||||

DB 15 GGCCATGAGACC 2

## RESULT 68

PCT-US94-02471-32/c

; Sequence 32, Application PC/TUS9402471

; GENERAL INFORMATION:

; APPLICANT: Draper et al.

; TITLE OF INVENTION: Oligonucleotide Therapies for

; TITLE OF INVENTION: Modulating the Effects of Herpesviruses

; NUMBER OF SEQUENCES: 57

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Woodcock Washburn Kurtz

; ADDRESSEE: Mackiewicz & Norris

; STREET: One Liberty Place - 46th Floor

; CITY: Philadelphia

; STATE: PA

; COUNTRY: USA

; ZIP: 19103

; COMPUTER READABLE FORM:

; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US94/02471

; FILING DATE: Herewith

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 485,297

; FILING DATE: February 26, 1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 852,132

; FILING DATE: April 28, 1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 954,185

; FILING DATE: September 29, 1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane Massey Licata

; REGISTRATION NUMBER: 32,257

; REFERENCE/DOCKET NUMBER: ISIS-0469

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (215) 568-3100

; TELEFAX: (215) 568-3439

; INFORMATION FOR SEQ ID NO: 32:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15

; TYPE: nucleic acid

STRANDEDNESS: single  
TOPOLOGY: linear  
ANTI-SENSE: yes  
PCT-US94-02471-32

Query Match 0.6%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 33;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 686 GCCCGCATGGCG 699  
DB 14 GCCCGCATGGCG 1

RESULT 69

US-08-441-887A-134/c  
Sequence 134, Application US/08441887A

Patent No. 5837832

GENERAL INFORMATION:

APPLICANT: Chee, Mark

APPLICANT: Cronin, Maureen T.

APPLICANT: Fodor, Stephen P.A.

APPLICANT: Huang, Xiaohua X.

APPLICANT: Hubbell, Earl A.

APPLICANT: Lishutz, Robert J.

APPLICANT: Lobban, Peter E.

APPLICANT: Morris, Macdonald S.

APPLICANT: Sheldon, Edward L.

TITLE OF INVENTION: Arrays of Nucleic Acid Probes on

TITLE OF INVENTION: Biological Chips

NUMBER OF SEQUENCES: 360

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, 8th Floor

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,887A

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/143,312

FILING DATE: 26-OCT-1993

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/082,937

FILING DATE: 25-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Liebeschuetz, Joseph O.

REGISTRATION NUMBER: 37,505

REFERENCE/DOCKET NUMBER: 018547-004160US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-326-2400

TELEFAX: 650-326-2422

INFORMATION FOR SEQ ID NO: 134:

SEQUENCE CHARACTERISTICS:

LENGTH: 13 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (probe)

US-08-441-887A-134

Query Match 0.5%; Score 12; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 27;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 544 CATCCTATTATT 555  
DB 13 CATCCTATTATT 2

RESULT 70

US-08-182-968A-428  
Sequence 428, Application US/08182968A

Patent No. 5610054

GENERAL INFORMATION:

APPLICANT: Draper, Kenneth G.

TITLE OF INVENTION: METHOD AND REAGENT FOR

TITLE OF INVENTION: INHIBITING HEPATITIS C

TITLE OF INVENTION: VIRUS REPLICATION

NUMBER OF SEQUENCES: 497

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

CITY: Los Angeles

STATE: California

COUNTRY: U.S.A.

ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/182,968A

FILING DATE: 13-JANUARY-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/882,888

FILING DATE: 14-MAY-1992

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard J.

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 205/277

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 428:

SEQUENCE CHARACTERISTICS:

LENGTH: 15

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-182-968A-428

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 66.7%; Pred. No. 39;  
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 593 GTACTCTCCTGG 504  
DB 1 GUACUCUCUGG 12

RESULT 71

US-08-074-879-7

Sequence 7, Application US/08074879

Patent No. 5656423

GENERAL INFORMATION:

APPLICANT: Orth, Gerard

APPLICANT: Volpers, Christoph

APPLICANT: Streek, Rolf

TITLE OF INVENTION: DNA Sequences Derived from the Genome of

TITLE OF INVENTION: the Papillomavirus HPV39, Their Use in In Vitro Diagnosis

TITLE OF INVENTION: and for the Production of an Immunogenic Composition

NUMBER OF SEQUENCES: 11

;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
;; ADDRESSEE: Dunner  
;; STREET: 1300 I Street, N.W.  
;; CITY: Washington  
;; STATE: DC  
;; COUNTRY: USA  
;; ZIP: 20005-3315  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent in Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/074,879  
;; FILING DATE: 16-JUN-1993  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: WO 92/1136  
;; FILING DATE: 09-JUL-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Potter, Jane E.R.  
;; REGISTRATION NUMBER: 33,332  
;; REFERENCE/DOCKET NUMBER: 02356.0066-00000  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 202-408-4000  
;; TELEFAX: 202-408-4400  
;; INFORMATION FOR SEQ ID NO: 7:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 15 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: DNA (genomic)  
;; US-08-074-879-7

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1109 TCTACATTTTAT 1120  
DB 1 TCTACATTTTAT 12

RESULT 72  
US-08-468-057A-7  
;; Sequence 7, Application US/08468057A  
;; Patent No. 566535  
;; GENERAL INFORMATION:  
;; APPLICANT: Orth, Gerard  
;; APPLICANT: Volpers, Christoph  
;; APPLICANT: Streek, Rolf  
;; TITLE OF INVENTION: DNA Sequences Derived from the Genome of  
;; TITLE OF INVENTION: the Papillomavirus HPV39, Their Use in In Vitro Diagnosis  
;; TITLE OF INVENTION: and for the Production of an Immunogenic Composition  
;; NUMBER OF SEQUENCES: 11  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
;; ADDRESSEE: Dunner  
;; STREET: 1300 I Street, N.W.  
;; CITY: Washington  
;; STATE: DC  
;; COUNTRY: USA  
;; ZIP: 20005-3315  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent in Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/468,057A  
;; FILING DATE: 06-JUN-1995

;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 08/074,879  
;; FILING DATE: 16-JUN-1993  
;; APPLICATION NUMBER: WO 92/1136  
;; FILING DATE: 09-JUL-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Potter, Jane E.R.  
;; REGISTRATION NUMBER: 33,332  
;; REFERENCE/DOCKET NUMBER: 02356.0066-00000  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 202-408-4000  
;; TELEFAX: 202-408-4400  
;; INFORMATION FOR SEQ ID NO: 7:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 15 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: DNA (genomic)  
;; US-08-468-057A-7

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1109 TCTACATTTTAT 1120  
DB 1 TCTACATTTTAT 12

RESULT 73  
US-08-963-933-13  
;; Sequence 13, Application US/08963933  
;; Patent No. 5837469  
;; GENERAL INFORMATION:  
;; APPLICANT: Harris, James M.  
;; TITLE OF INVENTION: Assay for Chlamydia Trachomatis by  
;; TITLE OF INVENTION: Amplification and Detection of Chlamydia Trachomatis  
;; TITLE OF INVENTION: Nucleic Acid  
;; NUMBER OF SEQUENCES: 14  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Richard J. Rodrick - Becton, Dickinson and  
;; ADDRESSEE: Company  
;; STREET: 1 Becton Drive  
;; CITY: Franklin Lakes  
;; STATE: NJ  
;; COUNTRY: USA  
;; ZIP: 07417  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent in Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/963,933  
;; FILING DATE:  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Hightet, David W.  
;; REGISTRATION NUMBER: 30,265  
;; REFERENCE/DOCKET NUMBER: P-3897  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (201) 847-5317  
;; TELEFAX: (201) 848-9228  
;; INFORMATION FOR SEQ ID NO: 13:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 15 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; US-08-963-933-13

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 739 TTTGTGGAGACA 750  
Db 4 TTTGTGGAGACA 15

## RESULT 74

US-08-774-306A-428  
; Sequence 428, Application US/08774306A  
; Patent No. 5869253  
; GENERAL INFORMATION:  
; APPLICANT: Draper, Kenneth G.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: INHIBITING HEPATITIS C  
; TITLE OF INVENTION: VIRUS REPLICATION  
; NUMBER OF SEQUENCES: 497  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/774.306A  
; FILING DATE: December 26, 1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/182.968  
; FILING DATE: January 13, 1994  
; APPLICATION NUMBER: 07/882.888  
; FILING DATE: May 14, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 223/227  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 428:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-774-306A-428

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 66.7%; Pred. No. 39;  
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 593 GTACTCTCTGG 604  
Db 1 GUACUCUCCUGG 12

## RESULT 75

US-09-064-156A-428  
; Sequence 428, Application US/09064156A  
; Patent No. 6132966  
; GENERAL INFORMATION:  
; APPLICANT: Draper, Kenneth G.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR

; TITLE OF INVENTION: INHIBITING HEPATITIS C  
; TITLE OF INVENTION: VIRUS REPLICATION  
; NUMBER OF SEQUENCES: 498  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/064.156A  
; FILING DATE: April 21, 1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/774.306  
; FILING DATE: December 26, 1996  
; APPLICATION NUMBER: 08/182.968  
; FILING DATE: January 13, 1994  
; APPLICATION NUMBER: 07/882.888  
; FILING DATE: May 14, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 234/083  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 428:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-064-156A-428

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 66.7%; Pred. No. 39;  
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 593 GTACTCTCTGG 604  
Db 1 GUACUCUCCUGG 12

## RESULT 76

US-09-081-646-116  
; Sequence 116, Application US/09081646  
; Patent No. 6333152  
; GENERAL INFORMATION:  
; APPLICANT: Kinzler, Kenneth  
; APPLICANT: Vogelstein, Bert  
; APPLICANT: Zhang, Lin  
; APPLICANT: Zhou, Wei  
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and  
; FILE REFERENCE: 01107.74664  
; CURRENT APPLICATION NUMBER: US/09/081.646  
; CURRENT FILING DATE: 1998-05-20  
; EARLIER APPLICATION NUMBER: 60/047,352  
; EARLIER FILING DATE: 1997-05-21  
; NUMBER OF SEQ ID NOS: 871  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 116  
; LENGTH: 15  
; TYPE: DNA



; ORGANISM: Homo sapiens  
US-09-081-646-115

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1015 ATGAAGACAGTG 1026  
|||||  
DB 2 ATGAAGACAGTG 13

## RESULT 77

US-09-081-646-822  
; Sequence 822, Application US/09081646  
; Patent No. 6333152  
; GENERAL INFORMATION:  
; APPLICANT: Kinzler, Kenneth  
; APPLICANT: Vogelstein, Bert  
; APPLICANT: Zhang, Lin  
; APPLICANT: Zhou, Wei  
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and  
; FILE REFERENCE: 01107.74664  
; CURRENT APPLICATION NUMBER: US/09/081,646  
; CURRENT FILING DATE: 1998-05-20  
; EARLIER APPLICATION NUMBER: 60/047,352  
; EARLIER FILING DATE: 1997-05-21  
; NUMBER OF SEQ ID NOS: 871  
; SOFTWARE: Fast-Seq for Windows Version 3.0  
; SEQ ID NO 822  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-081-646-822

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1015 ATGAAGACAGTG 1026  
|||||  
DB 2 ATGAAGACAGTG 13

## RESULT 78

US-08-705-477E-43/c  
; Sequence 43, Application US/08705477E  
; Patent No. 6569432  
; GENERAL INFORMATION:  
; APPLICANT: Israeli, Ron S  
; APPLICANT: Heston, Warren D.W.  
; APPLICANT: Fair, William R.  
; APPLICANT: Overfelli, Quathek  
; APPLICANT: Pinto, John  
; TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND USES THEREOF  
; FILE REFERENCE: 1769/41426-G  
; CURRENT APPLICATION NUMBER: US/08/705,477E  
; CURRENT FILING DATE: 1996-08-29  
; NUMBER OF SEQ ID NOS: 128  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 43  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-08-705-477E-43

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1583 ACTTCTTGATGT 1594  
|||||

Db 12 ACTTCTTGATGT 1

## RESULT 79

US-08-705-477E-48  
; Sequence 48, Application US/08705477E  
; Patent No. 6569432  
; GENERAL INFORMATION:  
; APPLICANT: Israeli, Ron S  
; APPLICANT: Heston, Warren D.W.  
; APPLICANT: Fair, William R.  
; APPLICANT: Overfelli, Quathek  
; APPLICANT: Pinto, John  
; TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND USES THEREOF  
; FILE REFERENCE: 1769/41426-G  
; CURRENT APPLICATION NUMBER: US/08/705,477E  
; CURRENT FILING DATE: 1996-08-29  
; NUMBER OF SEQ ID NOS: 128  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 48  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-08-705-477E-48

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1600 AAAAGTTGTGTA 1611  
|||||  
DB 2 AAAAGTTGTGTA 13

## RESULT 80

US-09-866-108A-9953/c  
; Sequence 9953, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: A60NICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Acomica Sequence Listing Engine

; Patent No. 6686188  
; SEQ ID NO 9953  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-9953

Query Match 0.5%; Score 11.2; DB 1; Length 17;  
Best Local Similarity 81.2%; Pred. No. 69;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1796 AGCTCCTTTTCTTC 1811  
Db 16 AGCTCAGTTTCTCC 1

RESULT 81  
US-09-866-108A-9952/c  
; Sequence 9952, Application US/09866108A  
; Patent No. 6686188

; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aecomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 9952  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-9952

Query Match 0.5%; Score 11.2; DB 1; Length 17;  
Best Local Similarity 81.2%; Pred. No. 69;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1796 AGCTCCTTTTCTTC 1811  
Db 17 AGCTCAGTTTCTCC 2

RESULT 82  
US-09-866-108A-9954/c

; Sequence 9954, Application US/09866108A  
; Patent No. 6686188

; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aecomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 9954  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-9954

Query Match 0.5%; Score 10.8; DB 1; Length 17;  
Best Local Similarity 85.7%; Pred. No. 78;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1796 AGCTCCTTTTCTTC 1809  
Db 15 AGCTCAGTTTCTC 2

RESULT 83

US-09-866-108A-9955/c  
; Sequence 9955, Application US/09866108A  
; Patent No. 6686188

; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04

US-09-866-108A-9954/c

```
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aemica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9955
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9955

Query Match      0.5%; Score 10.8; DB 1; Length 17;
Best Local Similarity 85.7%; Pred. No. 78;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1796 AGCTCCTTTTCTC 1809
Db 14 AGTCAGTTTCTC 1

RESULT 84
US-08-372-183-3/c
; Sequence 3, Application US/08372183
; Patent No. 6005086
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; APPLICANT: Fortman, Barry M.
; APPLICANT: Weinberger, Cary A.
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
; TITLE OF INVENTION: BY FARNESOID ACTIVATED RECEPTORS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/372,183
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/372,183
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9844
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-4737
; TELEFAX: 619-546-9392
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Oligonucleotide
US-09-469-721-3

Query Match      0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 90;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCAGATTGCTTTGCTGAAAGG 1318
Db 28 TGAAGAARMCTTGCAGCCCTCACAGG 2

RESULT 85
US-09-469-721-3/c
; Sequence 3, Application US/09469721
; Patent No. 6184353
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; APPLICANT: Fortman, Barry M.
; APPLICANT: Weinberger, Cary A.
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
; TITLE OF INVENTION: BY FARNESOID ACTIVATED RECEPTORS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/469,721
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/372,183
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9844
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-4737
; TELEFAX: 619-546-9392
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Oligonucleotide
US-09-469-721-3

Query Match      0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 90;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCAGATTGCTTTGCTGAAAGG 1318
Db 28 TGAAGAARMCTTGCAGCCCTCACAGG 2

RESULT 86
US-09-696-443-3/c
```

```
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Oligonucleotide
US-08-372-183-3

Query Match      0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 90;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCAGATTGCTTTGCTGAAAGG 1318
Db 28 TGAAGAARMCTTGCAGCCCTCACAGG 2

RESULT 85
US-09-469-721-3/c
; Sequence 3, Application US/09469721
; Patent No. 6184353
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; APPLICANT: Fortman, Barry M.
; APPLICANT: Weinberger, Cary A.
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
; TITLE OF INVENTION: BY FARNESOID ACTIVATED RECEPTORS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/469,721
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/372,183
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9844
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-4737
; TELEFAX: 619-546-9392
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Oligonucleotide
US-09-469-721-3

Query Match      0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 90;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCAGATTGCTTTGCTGAAAGG 1318
Db 28 TGAAGAARMCTTGCAGCCCTCACAGG 2

RESULT 86
US-09-696-443-3/c
```

```

; Sequence 3, Application US/09696443
; Patent No. 6416957
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; Forman, Barry M.
; Weinberger, Cary A.
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
; BY FARNESOID ACTIVATED RECEPTORS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/696,443
; FILING DATE: 24-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/372,183
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9844
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-4737
; TELEFAX: 619-546-9392
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Oligonucleotide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-696-443-3

Query Match 0.5%; Score 10.6; DB 1; Length 29;
Best Local Similarity 59.3%; Pred. No. 90;
Matches 16; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1292 TGAAGACCAGATTGCTTTGCTGTAAGG 1318
Db 28 TGAAGAARMCVTTGCAGCCCTCACAGG 2

RESULT 87
PCT-US95-17023-3/c
; Sequence 3, Application PC/TUS9517023
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; Forman, Barry M.
; Weinberger, Cary A.
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
; BY FARNESOID ACTIVATED RECEPTORS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:

```

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 206:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-311-760A-206

Query Match 0.5%; Score 10.2; DB 1; Length 15;  
Best Local Similarity 53.3%; Pred. No. 76;  
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 799 GTTCTTCAGGAGAA 813  
Db 1 GCUUCUUCUGAAGAA 15

RESULT 89  
US-08-774-310-206  
Sequence 206 Application US/08774310  
Patent No. 5877022  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: McSwiggen, James  
APPLICANT: Newton, Roger S.  
APPLICANT: Ramharack, Randy  
TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES  
TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF  
TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY  
TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN  
TITLE OF INVENTION:  
NUMBER OF SEQUENCES: 392  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/774.310  
FILING DATE: December 23, 1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/311,760  
FILING DATE: September 23, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 223/229  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 206:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-774-310-206

Query Match 0.5%; Score 10.2; DB 1; Length 15;

Best Local Similarity 53.3%; Pred. No. 76;  
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;  
QY 799 GTTCTTCAGGAGAA 813  
Db 1 GCUUCUUCUGAAGAA 15

RESULT 90  
US-08-585-684B-2362/c  
Sequence 2362 Application US/08585684B  
Patent No. 5877021  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: Jarvis, Thale  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE  
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 2751  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/585.684B  
FILING DATE: January 16, 1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/000,951  
FILING DATE: July 7, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 219/078  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2362:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-585-684B-2362

Query Match 0.5%; Score 10.2; DB 1; Length 15;  
Best Local Similarity 80.0%; Pred. No. 76;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 645 CAGGGAGAACTGAG 659  
Db 15 CAGGTAGAAACCAG 1

RESULT 91  
US-09-038-073-2362/c  
Sequence 2362 Application US/09038073  
Patent No. 6194150  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: Jarvis, Thale  
APPLICANT: McSwiggen, James



```

CLASSIFICATION: 435
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/166
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 719:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-311-486C-719

Query Match 0.5%; Score 10.2; DB 1; Length 15;
Best Local Similarity 13.3%; Pred. No. 76;
Matches 2; Conservative 10; Mismatches 3; Indels 0; Gaps 0;

QY 424 ATTTATTGGTGT 438
DB 1 AUUUAUUUAUUU 15

RESULT 94
US-08-292-620A-223
Sequence 223, Application US/08292620A
Patent No. 5837542
GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/292.620A
FILING DATE: August 17, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849

```

```

FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 223:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-292-620A-223

Query Match 0.5%; Score 10.2; DB 1; Length 15;
Best Local Similarity 20.0%; Pred. No. 76;
Matches 3; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY 424 ATTTATTGGTGT 438
DB 1 AUUUAUUUAUUU 15

RESULT 95
US-09-071-845-223
Sequence 223, Application US/09071845
Patent No. 6132967
GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071.845
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/292.620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELEPHONE: (213) 489-1600

```

```
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 223:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-071-845-223

Query Match 0.5%; Score 10.2; DB 1; Length 15;
Best Local Similarity 20.0%; Pred. No. 76;
Matches 3; Conservative 9; Mismatches 0; Gaps 0;

Qy 424 ATTTATTGTGTTT 438
Db 1 AUCAUUGUAUUU 15

RESULT 96
US-08-963-933-13/c
; Sequence 13, Application US/08963933
; Patent No. 5837469
; GENERAL INFORMATION:
; APPLICANT: Harris, James M.
; TITLE OF INVENTION: Assay for Chlamydia Trachomatis by
; TITLE OF INVENTION: Amplification and Detection of Chlamydia Trachomatis
; TITLE OF INVENTION: Nucleic Acid
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick - Becton, Dickinson and
; COMPANY:
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: USA
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/963,933
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Highest, David W.
; REGISTRATION NUMBER: 30,265
; REFERENCE/DOCKET NUMBER: P-3897
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 847-5317
; TELEFAX: (201) 848-9228
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-963-933-13

Query Match 0.5%; Score 10.2; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 76;
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1525 TGTCTCCAGATAGAC 1539
Db 15 TGTCTCCAGATAGAC 1

RESULT 97
US-08-311-486C-166/c
; Sequence 166, Application US/08311486C
```

```
; Patent No. 5811300
; GENERAL INFORMATION:
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth Draper
; APPLICANT: Kevin Kisich
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwiggen
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; NUMBER OF SEQUENCES: 1157
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,486C
; FILING DATE: September 23, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/166
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 166:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-311-486C-166

Query Match 0.5%; Score 10; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 82;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 92 ATCTGAGAG 101
Db 15 ATCTGAGAG 6

RESULT 98
US-08-373-124A-962
; Sequence 962, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
```

two



;; TITLE OF INVENTION: CANCER USING RIBOZYMES  
;; NUMBER OF SEQUENCES: 2627  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Lyon & Lyon  
;; STREET: 633 West Fifth Street  
;; CITY: Suite 4700  
;; STATE: Los Angeles  
;; COUNTRY: U.S.A.  
;; ZIP: 90071

;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: storage  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: Word Perfect 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/373,124A  
;; FILING DATE: January 13, 1995  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/245,466  
;; FILING DATE: May 18, 1994  
;; APPLICATION NUMBER: 08/192,943  
;; FILING DATE: February 7, 1994  
;; APPLICATION NUMBER: 07/987,132  
;; FILING DATE: December 7, 1992  
;; APPLICATION NUMBER: 07/936,422  
;; FILING DATE: August 26, 1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 209/035  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;; INFORMATION FOR SEQ ID NO: 962:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 17 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-373-124A-962

Query Match 0.5%; Score 10; DB 1; Length 17;  
Best Local Similarity 50.0%; Pred.No. 99;  
Matches 5; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1455 TTTTATAAAA 1464  
:::|::|::|  
Db 7 UUUUAAAAA 16

RESULT 99  
US-08-373-124A-964  
;; Sequence 964, Application US/08373124A  
;; Patent No. 5646042  
;; GENERAL INFORMATION:  
;; APPLICANT: Stinchcomb, Dan T.  
;; APPLICANT: Draper, Kenneth  
;; APPLICANT: McSwiggen, James  
;; APPLICANT: Jarvis, Thale  
;; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
;; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
;; TITLE OF INVENTION: CANCER USING RIBOZYMES  
;; NUMBER OF SEQUENCES: 2627  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Lyon & Lyon  
;; STREET: 633 West Fifth Street  
;; CITY: Suite 4700  
;; STATE: Los Angeles  
;; COUNTRY: U.S.A.

;; ZIP: 90071  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: storage  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: Word Perfect 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/373,124A  
;; FILING DATE: January 13, 1995  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/245,466  
;; FILING DATE: May 18, 1994  
;; APPLICATION NUMBER: 08/192,943  
;; FILING DATE: February 7, 1994  
;; APPLICATION NUMBER: 07/987,132  
;; FILING DATE: December 7, 1992  
;; APPLICATION NUMBER: 07/936,422  
;; FILING DATE: August 26, 1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Warburg, Richard  
;; REGISTRATION NUMBER: 32,327  
;; REFERENCE/DOCKET NUMBER: 209/035  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (213) 489-1600  
;; TELEFAX: (213) 955-0440  
;; TELEX: 67-3510  
;; INFORMATION FOR SEQ ID NO: 964:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 17 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-373-124A-964

Query Match 0.5%; Score 10; DB 1; Length 17;  
Best Local Similarity 50.0%; Pred.No. 99;  
Matches 5; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1455 TTTTATAAAA 1464  
:::|::|::|  
Db 6 UUUUAAAAA 15

RESULT 100  
US-08-435-628-962  
;; Sequence 962, Application US/08435628  
;; Patent No. 5817796  
;; GENERAL INFORMATION:  
;; APPLICANT: Stinchcomb, Dan T.  
;; APPLICANT: Draper, Kenneth  
;; APPLICANT: McSwiggen, James  
;; APPLICANT: Jarvis, Thale  
;; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
;; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
;; TITLE OF INVENTION: CANCER USING RIBOZYMES  
;; NUMBER OF SEQUENCES: 2627  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Lyon & Lyon  
;; STREET: 633 West Fifth Street  
;; CITY: Suite 4700  
;; STATE: Los Angeles  
;; COUNTRY: U.S.A.  
;; ZIP: 90071  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; MEDIUM TYPE: storage  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: IBM P.C. DOS 5.0  
;; SOFTWARE: Word Perfect 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/435,628

```

; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 483-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 962:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-435-628-962

```

```

Query Match      0.5%; Score 10; DB 1; Length 17;
Best Local Similarity 50.0%; Pred.No. 99;
Matches 5; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1455 TTTTATATAA 1464
Db      7 UUUUUAUAAA 16
      ::::|

```

Search completed: April 8, 2004, 15:24:49  
Job time : 3 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 8, 2004, 15:26:52 ; Search time 2 Seconds  
(without alignments)  
3.815 Million cell updates/sec

Title: us-10-002-491-3  
Perfect score: 2218  
Sequence: 1 acgagactctctctctcc.....aaaaaaaaaaaaaaaa 2218

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 92 seqs, 1720 residues  
Total number of hits satisfying chosen parameters: 184

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : rnpbdb.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	27	1.2	27	1	US-10-002-491-4
2	27	1.2	27	1	US-10-002-491-6
3	23.6	1.1	29	1	US-10-155-379-3
4	23	1.0	23	1	US-10-002-491-5
5	20	0.9	20	1	US-10-002-491-12
6	20	0.9	20	1	US-10-002-491-13
7	20	0.9	20	1	US-10-002-491-14
8	20	0.9	20	1	US-10-002-491-15
9	20	0.9	20	1	US-10-002-491-16
10	20	0.9	20	1	US-10-002-491-17
11	20	0.9	20	1	US-10-002-491-18
12	20	0.9	20	1	US-10-002-491-19
13	20	0.9	20	1	US-10-002-491-20
14	20	0.9	20	1	US-10-002-491-21
15	20	0.9	20	1	US-10-002-491-22
16	20	0.9	20	1	US-10-002-491-23
17	20	0.9	20	1	US-10-002-491-39
18	20	0.9	20	1	US-10-002-491-40
19	20	0.9	20	1	US-10-002-491-41
20	20	0.9	20	1	US-10-002-491-42
21	20	0.9	20	1	US-10-002-491-43
22	20	0.9	20	1	US-10-002-491-44
23	20	0.9	20	1	US-10-002-491-45
24	20	0.9	20	1	US-10-002-491-46
25	20	0.9	20	1	US-10-002-491-47
26	20	0.9	20	1	US-10-002-491-48
27	20	0.9	20	1	US-10-002-491-49
28	20	0.9	20	1	US-10-002-491-50
29	20	0.9	20	1	US-10-002-491-51
30	20	0.9	20	1	US-10-002-491-52
31	20	0.9	20	1	US-10-002-491-53
32	20	0.9	20	1	US-10-002-491-54
33	20	0.9	20	1	US-10-002-491-55

ALIGNMENTS

RESULT 1

Sequence 55, Appl	US-10-002-491-56	1	0.9	20	34
Sequence 56, Appl	US-10-002-491-57	1	0.9	20	35
Sequence 57, Appl	US-10-002-491-58	1	0.9	20	36
Sequence 58, Appl	US-10-002-491-59	1	0.9	20	37
Sequence 59, Appl	US-10-002-491-60	1	0.9	20	38
Sequence 60, Appl	US-10-002-491-61	1	0.9	20	39
Sequence 61, Appl	US-10-002-491-62	1	0.9	20	40
Sequence 62, Appl	US-10-002-491-63	1	0.9	20	41
Sequence 63, Appl	US-10-002-491-64	1	0.9	20	42
Sequence 64, Appl	US-10-002-491-65	1	0.9	20	43
Sequence 65, Appl	US-10-002-491-66	1	0.9	20	44
Sequence 66, Appl	US-10-002-491-67	1	0.9	20	45
Sequence 67, Appl	US-10-002-491-68	1	0.9	20	46
Sequence 68, Appl	US-10-002-491-69	1	0.9	20	47
Sequence 69, Appl	US-10-002-491-70	1	0.9	20	48
Sequence 70, Appl	US-10-002-491-71	1	0.9	20	49
Sequence 71, Appl	US-10-002-491-72	1	0.9	20	50
Sequence 72, Appl	US-10-002-491-73	1	0.9	20	51
Sequence 73, Appl	US-10-002-491-74	1	0.9	20	52
Sequence 74, Appl	US-09-851-501-31	19	15.4	53	53
Sequence 31, Appl	US-10-142-722-31	19	16.4	54	54
Sequence 31, Appl	US-10-300-683-31	19	16.4	55	55
Sequence 62, Appl	US-09-866-108-9953	17	15.4	56	56
Sequence 9553, Ap	US-09-866-108-9952	17	14.4	57	58
Sequence 9552, Ap	US-09-866-108-9954	17	14.4	59	59
Sequence 9954, Ap	US-09-866-108-9955	17	13.8	60	61
Sequence 2258, Ap	US-09-866-108-9955	17	13.8	62	63
Sequence 9955, Ap	US-09-866-108-9956	17	13.8	64	65
Sequence 9956, Ap	US-09-864-785-2915	17	13.8	66	67
Sequence 2815, Ap	US-09-730-289B-1076	17	13.8	68	69
Sequence 1076, Ap	US-09-780-533A-2291	17	13.8	70	71
Sequence 1077, Ap	US-09-780-533A-2291	17	13.8	72	73
Sequence 2291, Ap	US-09-848-754A-292	17	13.8	74	75
Sequence 292, App	US-09-848-754A-1414	17	13.8	76	77
Sequence 1414, Ap	US-09-776-474-847	17	13.8	78	79
Sequence 847, App	US-10-156-306-2834	17	13.8	80	81
Sequence 2834, Ap	US-10-339-793-195	17	13.8	82	83
Sequence 801, App	US-10-230-006-801	17	13.8	84	85
Sequence 111, App	US-10-308-503-111	15	13.4	86	87
Sequence 950, App	US-09-504-231A-486	15	13	88	89
Sequence 486, App	US-09-274-553D-486	15	13	90	91
Sequence 972, App	US-10-440-850-972	15	12.8	92	93
Sequence 103, App	US-10-308-503-103	16	12.4	94	95
Sequence 27, Appl	US-10-001-835-27	15	12.4	96	97
Sequence 194, App	US-10-010-802-194	15	12.4	98	99
Sequence 2642, Ap	US-10-287-919-2642	15	12.4	100	11
Sequence 3, Appli	US-10-274-095-3	15	12.2		
Sequence 319, App	US-10-440-850-319	15	12.2		
Sequence 44, Appl	US-10-002-491-44	20	12.2		
Sequence 450, App	US-09-504-231A-450	15	12		
Sequence 1190, Ap	US-09-504-231A-1190	15	12		
Sequence 450, App	US-09-274-553D-450	15	12		
Sequence 1190, Ap	US-09-274-553D-1190	15	12		
Sequence 28, Appl	US-10-197-019-28	15	11.6		
Sequence 48, Appl	US-10-197-019-48	15	11.6		
Sequence 43, Appl	US-10-443-694-43	15	11.2		
Sequence 18, Appl	US-10-002-491-18	20	11.2		
Sequence 15, Appl	US-10-002-491-15	20	11.2		
Sequence 16, Appl	US-10-002-491-16	20	11.2		
Sequence 4, Appli	US-10-002-491-4	27	11.2		
Sequence 9953, Ap	US-09-866-108-9953	17	11.2		
Sequence 9952, Ap	US-09-866-108-9952	17	11.2		
Sequence 49, Appl	US-10-002-491-49	20	11.2		

```

US-10-002-491-4
; Sequence 4, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 4
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-002-491-4
Query Match 1.2%; Score 27; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 956 TCAGTGTAAATCTAAGCGACTGAGAAA 982
DB 1 TCAGTGTAAATCTAAGCGACTGAGAAA 27
RESULT 2
US-10-002-491-6
; Sequence 6, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 6
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Probe
US-10-002-491-6
Query Match 1.2%; Score 27; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 991 AGCAGCATGAGATCAGACCGTGAATG 1017
DB 1 AGCAGCATGAGATCAGACCGTGAATG 27
RESULT 3
US-10-155-379-3
; Sequence 3, Application US/10155379
; Publication No. US20030022290A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Ronald M.
; APPLICANT: Weinberger, Cary A.
; TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED BY PARNESOID ACTIVATED RECEPTORS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
US-10-002-491-5/c
; Sequence 5, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 5
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-002-491-5
Query Match 1.0%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1019 AGACAGTGAAGTCTGACTGTC 1041
DB 23 AGACAGTGAAGTCTGACTGTC 1
RESULT 5
US-10-002-491-12/c
; Sequence 12, Application US/10002491

```

Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 12  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-12

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 549 TATTATCCCAACTGGGTTT 568  
Db 20 TATTATCCCAACTGGGTTT 1

RESULT 6  
US-10-002-491-13/c  
; Sequence 13, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 13  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-13

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 717 AAAGGGGATGAGCTGTGTGT 736  
Db 20 AAAGGGGATGAGCTGTGTGT 1

RESULT 7  
US-10-002-491-14/c  
; Sequence 14, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 14  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide

US-10-002-491-14  
Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 861 GTGATGGATGTACATGCG 880  
Db 20 GTGATGGATGTACATGCG 1

RESULT 8  
US-10-002-491-15/c  
; Sequence 15, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 15  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-15

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 917 AGAGATGGGAATGTGGCTG 936  
Db 20 AGAGATGGGAATGTGGCTG 1

RESULT 9  
US-10-002-491-16/c  
; Sequence 16, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 16  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-16

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 946 TAACTGAAATTCAGTGTA 965  
Db 20 TAACTGAAATTCAGTGTA 1

RESULT 10  
US-10-002-491-17/c  
; Sequence 17, Application US/10002491  
; Publication No. US20030109467A1

```

; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-17

```

```

Query Match      0.98; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels

```

```

RESULT 11
US-10-002-491-18/c
; Sequence 18, Application US/10002491
; Publication NO. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FMR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-002-491-18

```

```

Query March      0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Fred.Nc. 6.4;
Matches 20; Conservative 0; Mismatches 0; Gaps 0;
Qy 1067 ATGCAGGGAGAAAACGTGAAC 1086
Db 20 ATGCAGGGAGAAAACGTGAAC 1

```

```

RESULT 12
US-10-002-491-19/C
, Sequence 19, Application US/10002491
, Publication No. US28030109467A1
, GENERAL INFORMATION:
, APPLICANT: Brett P. Monia
, APPLICANT: Andrew T. Watt
, TITLE OF INVENTION: ANTISENSE MODULATION OF FMR EXPRESSION
, FILE REFERENCE: RTS-0239
, CURRENT APPLICATION NUMBER: US/10/002,491
, CURRENT FILING DATE: 2001-11-15
, NUMBER OF SEQ ID NOS: 88
, SEQ ID NO 19
, LENGTH: 20
, TYPE: DNA
, ORGANISM: Artificial Sequence
, FEATURE:
, OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-19

```

```

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels

Qy      1191 GCAGAGAGAAAATTTTCTCAT 1210
          |||||
Db       20 GCAGAGAGAAAATTTTCTCAT 1

```

```

RESULT 13
US-10-002-491-20/c
/ Sequence 20 Application US/10002491
/ Publication No US20030109467A1
/ GENERAL INFORMATION:
/
/ APPLICANT: Brett P. Monia
/ APPLICANT: Andrew T. Watt
/ TITLE OR INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
/ FILE REFERENCE: RFS-0239
/ CURRENT APPLICATION NUMBER: US/10/002,491
/ CURRENT FILING DATE: 2001-11-15
/ NUMBER OF SEQ ID NOS: 88
/ SEQ ID NO 20
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-20

```

```

Query Match      0.9%; Score 20; DB 1; Length 20
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels

```

```

RESULT 14
US-10-002-491-21/c
; Sequence 21, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Moria
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-21

```

Query Match	0.9%	Score 20;	DB 1;	Length 20;
Best Local Similarity	100.0%	Pred. No. 6.4;		
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1354	AGATTTTCAATAAGAAACTT	1373	
ph	20	AGATTTTCAATAAGAAACTT	1	

RESULT 15  
US-10-002-491-22/c  
; Sequence 22, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 22  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-22

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1542 TACATAAAGGATAGAGAGGC 1561  
Db 20 TACATAAAGGATAGAGAGGC 1

## RESULT 16

US-10-002-491-23/c  
; Sequence 23, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 23  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-23

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1688 TCACCACGCTGAGATGCTGA 1707  
Db 20 TCACCACGCTGAGATGCTGA 1

## RESULT 17

US-10-002-491-39/c  
; Sequence 39, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 39  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-39

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 534 ATTCTCTCGTCATCCUATTA 553  
Db 20 ATTCTCTCGTCATCCUATTA 1

## RESULT 18

US-10-002-491-40/c  
; Sequence 40, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 40  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-40

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 553 ATCCACACCTGGTTTCTAC 572  
Db 20 ATCCACACCTGGTTTCTAC 1

## RESULT 19

US-10-002-491-41/c  
; Sequence 41, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 41  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-41

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 587 AGAGTGGTACTCTCTGGAA 606  
Db 20 AGAGTGGTACTCTCTGGAA 1

## RESULT 20

US-10-002-491-42/c  
; Sequence 42, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia

Thu Apr 8 15:27:39 2004

APPLICANT: Andrew T. Watt  
 TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
 FILE REFERENCE: RTS-0239  
 CURRENT APPLICATION NUMBER: US/10/002,491  
 CURRENT FILING DATE: 2001-11-15  
 NUMBER OF SEQ ID NOS: 88  
 SEQ ID NO 42  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-002-491-42

Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 6.4;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 596 CTCCTCGGAATATATGAAC 615  
 |||||  
 DB 20 CTCCTCGGAATATATGAAC 1

RESULT 21  
 US-10-002-491-43/c  
 Sequence 43, Application US/10002491  
 Publication No. US20030109467A1  
 GENERAL INFORMATION:  
 APPLICANT: Brett P. Monia  
 TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
 FILE REFERENCE: RTS-0239  
 CURRENT APPLICATION NUMBER: US/10/002,491  
 CURRENT FILING DATE: 2001-11-15  
 NUMBER OF SEQ ID NOS: 88  
 SEQ ID NO 43  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-002-491-43

Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 6.4;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 609 TATGAACTCAGCGTATGCC 628  
 |||||  
 DB 20 TATGAACTCAGCGTATGCC 1

RESULT 22  
 US-10-002-491-44/c  
 Sequence 44, Application US/10002491  
 Publication No. US20030109467A1  
 GENERAL INFORMATION:  
 APPLICANT: Brett P. Monia  
 TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
 FILE REFERENCE: RTS-0239  
 CURRENT APPLICATION NUMBER: US/10/002,491  
 CURRENT FILING DATE: 2001-11-15  
 NUMBER OF SEQ ID NOS: 88  
 SEQ ID NO 44  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-002-491-44

Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 6.4;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 645 CAGGAGAACTGAGGTAGC 664  
 |||||  
 DB 20 CAGGAGAACTGAGGTAGC 1

RESULT 23  
 US-10-002-491-45/c  
 Sequence 45, Application US/10002491  
 Publication No. US20030109467A1  
 GENERAL INFORMATION:  
 APPLICANT: Brett P. Monia  
 TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
 FILE REFERENCE: RTS-0239  
 CURRENT APPLICATION NUMBER: US/10/002,491  
 CURRENT FILING DATE: 2001-11-15  
 NUMBER OF SEQ ID NOS: 88  
 SEQ ID NO 45  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-002-491-45

Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 6.4;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 699 GCGTCAGCAGGAGGATCAA 718  
 |||||  
 DB 20 GCGTCAGCAGGAGGATCAA 1

RESULT 24  
 US-10-002-491-46/c  
 Sequence 46, Application US/10002491  
 Publication No. US20030109467A1  
 GENERAL INFORMATION:  
 APPLICANT: Brett P. Monia  
 TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
 FILE REFERENCE: RTS-0239  
 CURRENT APPLICATION NUMBER: US/10/002,491  
 CURRENT FILING DATE: 2001-11-15  
 NUMBER OF SEQ ID NOS: 88  
 SEQ ID NO 46  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-002-491-46

Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 6.4;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 726 GAGCTGTGTGTTGTGTGG 745  
 |||||  
 DB 20 GAGCTGTGTGTTGTGTGG 1

RESULT 25  
 US-10-002-491-47/c  
 Sequence 47, Application US/10002491  
 Publication No. US20030109467A1  
 GENERAL INFORMATION:  
 APPLICANT: Brett P. Monia  
 TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
 FILE REFERENCE: RTS-0239  
 CURRENT APPLICATION NUMBER: US/10/002,491  
 CURRENT FILING DATE: 2001-11-15  
 NUMBER OF SEQ ID NOS: 88  
 SEQ ID NO 47  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-002-491-47

Query Match 0.9%; Score 20; DB 1; Length 20;



; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88

; SEQ ID NO 47

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-10-002-491-47

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 734 TGTGTTGTTGGAGACAGAG 753

DB 20 TGTGTTGTTGGAGACAGAG 1

RESULT 26

US-10-002-491-48/c

; Sequence 48, Application US/10002491

; Publication No. US20030109467A1

; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION

; FILE REFERENCE: RTS-0239

; CURRENT APPLICATION NUMBER: US/10/002,491

; CURRENT FILING DATE: 2001-11-15

; NUMBER OF SEQ ID NOS: 88

; SEQ ID NO 48

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-10-002-491-48

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 745 GAGACAGAGCCTCTGGATAC 764

DB 20 GAGACAGAGCCTCTGGATAC 1

RESULT 27

US-10-002-491-49/c

; Sequence 49, Application US/10002491

; Publication No. US20030109467A1

; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION

; FILE REFERENCE: RTS-0239

; CURRENT APPLICATION NUMBER: US/10/002,491

; CURRENT FILING DATE: 2001-11-15

; NUMBER OF SEQ ID NOS: 88

; SEQ ID NO 49

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-10-002-491-49

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 751 GAGCCTCTGGATACCACTAT 770

DB 20 GAGCCTCTGGATACCACTAT 1

RESULT 28

US-10-002-491-50/c

; Sequence 50, Application US/10002491

; Publication No. US20030109467A1

; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION

; FILE REFERENCE: RTS-0239

; CURRENT APPLICATION NUMBER: US/10/002,491

; CURRENT FILING DATE: 2001-11-15

; NUMBER OF SEQ ID NOS: 88

; SEQ ID NO 50

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-10-002-491-50

Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 6.4;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 757 CTGGATACCACTATAATGCA 776

DB 20 CTGGATACCACTATAATGCA 1

RESULT 29

US-10-002-491-51/c

; Sequence 51, Application US/10002491

; Publication No. US20030109467A1

; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION

; FILE REFERENCE: RTS-0239

; CURRENT APPLICATION NUMBER: US/10/002,491

; CURRENT FILING DATE: 2001-11-15

; NUMBER OF SEQ ID NOS: 88

; SEQ ID NO 51

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-10-002-491-51

Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 6.4;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 931 TGGCTGAATGCTTGTTAACT 950

DB 20 TGGCTGAATGCTTGTTAACT 1

RESULT 30

US-10-002-491-52/c

; Sequence 52, Application US/10002491

; Publication No. US20030109467A1

; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION

```
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 52
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-52

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1033 GTGACTTGGCAGCAAGTGACC 1052
Db 20 GTGACTTGGCAGCAAGTGACC 1

RESULT 31
US-10-002-491-53/c
; Sequence 53, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-53

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1039 TCGCAGCAAGTGACCTCGACA 1058
Db 20 TCGCAGCAAGTGACCTCGACA 1

RESULT 32
US-10-002-491-54/c
; Sequence 54, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-54

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1065 TCATGCGAGGAGAAACTGA 1084
Db 20 TCATGCGAGGAGAAACTGA 1

RESULT 33
US-10-002-491-55/c
; Sequence 55, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-55

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AACAAACAGAGGATGCTTCA 1153
Db 20 AACAAACAGAGGATGCTTCA 1

RESULT 34
US-10-002-491-56/c
; Sequence 56, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-56

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1143 AGGATGCTTCAGGAATAAC 1162
Db 20 AGGATGCTTCAGGAATAAC 1

RESULT 35
US-10-002-491-57/c
; Sequence 57, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
```

; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 57  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-57

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1178 AGAAGAATTCAGTGCAGAG 1197  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 AGAAGAATTCAGTGCAGAG 1

RESULT 36  
US-10-002-491-58/c  
; Sequence 58, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 58  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-58

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1213 TGACGGAAATGGAACCAAT 1232  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 TGACGGAAATGGAACCAAT 1

RESULT 37  
US-10-002-491-59/c  
; Sequence 59, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 59  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-59

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1264 AGTACCAGGATTCAGACT 1283  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 AGTACCAGGATTCAGACT 1

RESULT 38  
US-10-002-491-60/c  
; Sequence 60, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 60  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-60

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1332 GCTATGTTCTTCGTCAGC 1351  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 GCTATGTTCTTCGTCAGC 1

RESULT 39  
US-10-002-491-61/c  
; Sequence 61, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491  
; CURRENT FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 88  
; SEQ ID NO 61  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-002-491-61

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1342 TTCGTTACGCTGAGATTTC 1361  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 TTCGTTACGCTGAGATTTC 1

RESULT 40  
US-10-002-491-62/c  
; Sequence 62, Application US/10002491  
; Publication No. US20030109467A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Andrew T. Watt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION  
; FILE REFERENCE: RTS-0239  
; CURRENT APPLICATION NUMBER: US/10/002,491

```
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-62

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1364 TAAGAACTCCGTCGTGGC 1383
Db 20 TAAGAACTCCGTCGTGGC 1

RESULT 41
US-10-002-491-63/c
; Sequence 63, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-63

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1390 ACCTATGGAAGAAGATT 1409
Db 20 ACCTATGGAAGAAGATT 1

RESULT 42
US-10-002-491-64/c
; Sequence 64, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 64
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-64

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1411 GAAATAGTGTCTCTGTAT 1430
Db 20 GAAATAGTGTCTCTGTAT 1
```

```
Db 20 GAAATAGTGTCTCTGTAT 1

RESULT 43
US-10-002-491-65/c
; Sequence 65, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 65
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-65

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1429 ATGAATATATAACACCTATG 1448
Db 20 ATGAATATATAACACCTATG 1

RESULT 44
US-10-002-491-66/c
; Sequence 66, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 66
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-66

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 GGAGTATGCTCTGCTTACAG 1512
Db 20 GGAGTATGCTCTGCTTACAG 1

RESULT 45
US-10-002-491-67/c
; Sequence 67, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
```

```
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 67
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-67

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1525 TGCTCCAGATAGACAATAC 1544
    |||||
Db 20 TGCTCCAGATAGACAATAC 1

RESULT 46
US-10-002-491-68/c
; Sequence 68, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-68

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1567 AGAAGCTTCAGGACCACTT 1596
    |||||
Db 20 AGAAGCTTCAGGACCACTT 1

RESULT 47
US-10-002-491-69/c
; Sequence 69, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 69
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-69

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1608 TGTAAGATTCACCAGCCTGA 1627
    |||||
Db 20 TGTAAGATTCACCAGCCTGA 1

; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 67
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-70/c

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1623 CCTGAAATCTCTCAACACTT 1642
    |||||
Db 20 CCTGAAATCTCTCAACACTT 1

RESULT 48
US-10-002-491-70/c
; Sequence 70, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 70
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-70

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1623 CCTGAAATCTCTCAACACTT 1642
    |||||
Db 20 CCTGAAATCTCTCAACACTT 1

RESULT 49
US-10-002-491-71/c
; Sequence 71, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-71

Query Match          0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1630 ATCCTCAACACTTTGCCTGT 1649
    |||||
Db 20 ATCCTCAACACTTTGCCTGT 1

RESULT 50
US-10-002-491-72/c
; Sequence 72, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
```



Publication No. US20030235834A1  
GENERAL INFORMATION:  
APPLICANT: Dunlop, Charles L.M.  
APPLICANT: Weisel, James M.  
TITLE OF INVENTION: APPROACHES TO IDENTIFY CYSTIC FIBROSIS  
FILE REFERENCE: CHARDON.010A  
CURRENT APPLICATION NUMBER: US/10/300,683  
CURRENT FILING DATE: 2002-11-19  
PRIOR APPLICATION NUMBER: 60/333,531  
PRIOR FILING DATE: 2001-11-19  
NUMBER OF SEQ ID NOS: 554  
SOFTWARE: PastSeq for Windows Version 4.0  
SEQ ID NO 31  
LENGTH: 19  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Diagnostic Oligonucleotide  
US-10-300-683-31

Query Match 0.7%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 21;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 784 GTGAGGGGTGTAAGGTT 801  
|||||  
Db 2 GTGAGGGGTGTAAGGTT 19

RESULT 56  
US-10-376-566-62/c  
Sequence 62, Application US/10376566  
Publication No. US20030158144A1  
GENERAL INFORMATION:  
APPLICANT: Kenneth W. Dobie  
APPLICANT: Mark P. Roach  
APPLICANT: Erich Koller  
TITLE OF INVENTION: ANTISENSE MODULATION OF ESTROGEN RECEPTOR BETA EXPRESSION  
CURRENT APPLICATION NUMBER: US/10/376,566  
CURRENT FILING DATE: 2003-02-27  
PRIOR APPLICATION NUMBER: US/10/005,058  
PRIOR FILING DATE: 2001-12-07  
NUMBER OF SEQ ID NOS: 96  
SEQ ID NO 62  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-10-376-566-62

Query Match 0.7%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 24;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1171 TTTTAAAGAAGATTCA 1188  
|||||  
Db 19 TTTTAAAGAAGATTCA 2

RESULT 57  
US-09-866-108-9953  
Sequence 9953, Application US/09866108  
Patent No. US20020048800A1  
GENERAL INFORMATION:  
APPLICANT: GU, Yizhong  
APPLICANT: JI, Yonggang  
APPLICANT: PENN, Sharon G.  
APPLICANT: HANZEL, David R.  
APPLICANT: RANK, David R.  
APPLICANT: CHEN, Wensheng  
APPLICANT: SHANNON, Mark

TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
FILE REFERENCE: AEOmica-7  
CURRENT APPLICATION NUMBER: US/09/866,108  
CURRENT FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: GB 24263.6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 60/266,860  
PRIOR FILING DATE: 2001-02-05  
NUMBER OF SEQ ID NOS: 15752  
SOFTWARE: AeoMica Sequence Listing Engine  
SEQ ID NO 9953  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-866-108-9953

Query Match 0.7%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 23;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1072 GGGAGAAACTGACTC 1088  
|||||  
Db 1 GGGAGAAACTGACTC 17

RESULT 58  
US-09-866-108-9952  
Sequence 9952, Application US/09866108  
Patent No. US20020048800A1  
GENERAL INFORMATION:  
APPLICANT: GU, Yizhong  
APPLICANT: JI, Yonggang  
APPLICANT: PENN, Sharon G.  
APPLICANT: HANZEL, David R.  
APPLICANT: RANK, David R.  
APPLICANT: CHEN, Wensheng  
APPLICANT: SHANNON, Mark  
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
FILE REFERENCE: AEOmica-7  
CURRENT APPLICATION NUMBER: US/09/866,108  
CURRENT FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: GB 24263.6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27

```

; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9952
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108-9952

```

```

Query Match          0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1072 GCGAGAAACTGAAGTCT 1087
Db 2 GCGAGAAACTGAAGTCT 17

```

```

RESULT 59
US-09-866-108-9954
; Sequence 9954, Application US/09866108
; Patent No. US2002004800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30

```

```

; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9954
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108-9954

```

```

Query Match          0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1073 GCGAGAAACTGAAGTCT 1088
Db 1 GCGAGAAACTGAAGTCT 16

```

```

RESULT 60
US-09-866-108-2258/c
; Sequence 2258, Application US/09866108
; Patent No. US2002004800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30

```



US-09-866-108-9955  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 39;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
NUMBER OF SEQ ID NOS: 15752  
SOFTWARE: Acomica Sequence Listing Engine  
SEQ ID NO 2258  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-866-108-2258

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 39;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1017 GAAGACAGTGAAGTGC 1033  
DB 17 GAGGACAGTGAAGTGC 1

RESULT 61  
US-09-866-108-9955  
; Sequence 9955, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: ACOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-01-30  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 9955  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-09-866-108-9955  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 39;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1074 GAGAAACTGAAGTGC 1090  
DB 1 GAGAAACTGAAGTGC 17

RESULT 62  
US-09-866-108-9956  
; Sequence 9956, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: ACOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 9956  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-9956

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 39;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1075 AGAAACTGAAGTGC 1091  
DB 1 AGAAACTGAAGTGC 17

```
RESULT 63
US-09-864-785-2915
; Sequence 2915, Application US/09864785
; Patent No. US20020177568A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Draper, Ken
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; FILE REFERENCE: 400/022 (MBH00-812-D)
; CURRENT APPLICATION NUMBER: US/09/864,785
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 3929
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2915
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
US-09-864-785-2915

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 39;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 803 CTTGAGGAGGAGCAATTA 819
| : | | | | | | | | |
Db 1 CUUAGGAGGAGCAUUA 17

RESULT 64
US-09-730-289B-1076/c
; Sequence 1076, Application US/09730289B
; Publication No. US20030050259A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for Treatment of Cardiac Disease
; FILE REFERENCE: MBH00-864-A (400/006)
; CURRENT APPLICATION NUMBER: US/09/730,289B
; CURRENT FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: US 60/169,100
; PRIOR FILING DATE: 1999-12-06
; NUMBER OF SEQ ID NOS: 3897
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1076
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-730-289B-1076

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1516 TTGTTATCCTGCTGCCA 1532
| | | | | | | | | |
Db 17 TTGTTTCTGCTGTCGA 1

RESULT 65
US-09-730-289B-1077/c
; Sequence 1077, Application US/09730289B
; Publication No. US20030050259A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
```

```
; TITLE OF INVENTION: Method and Reagent for Treatment of Cardiac Disease
; FILE REFERENCE: MBH00-864-A (400/006)
; CURRENT APPLICATION NUMBER: US/09/730,289B
; CURRENT FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: US 60/169,100
; PRIOR FILING DATE: 1999-12-06
; NUMBER OF SEQ ID NOS: 3897
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1077
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-730-289B-1077

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1515 ATTGTTATCCTGCTGCC 1531
| | | | | | | | | |
Db 17 ATTGTTTCTGCTGTCG 1

RESULT 66
US-09-780-533A-2291
; Sequence 2291, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2291
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2291

Query Match 0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 39;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 606 ATATATGAACCTCAGCGC 622
| : | | | | | | | |
Db 1 AUAAGAAGAACUCAGGCG 17

RESULT 67
US-09-780-533A-2491/c
; Sequence 2491, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
```

```
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2491
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2491

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 567 TTCTACCCCGAGCAGCC 583
Db 17 TTTTACCTCAGCAGCC 1

RESULT 68
US-09-848-754A-292/c
; Sequence 292, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Epidermal Growth Factor Receptors
; FILE REFERENCE: MBH00-958-1 (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 292
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-292

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 718 AAGGGGATGAGCTGTGT 734
Db 17 AAGGGCATGAGCTGCGT 1

RESULT 69
US-09-848-754A-1414/c
; Sequence 1414, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Epidermal Growth Factor Receptors
; FILE REFERENCE: MBH00-958-1 (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1414
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-1414

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 719 AGGGGATGAGCTGTGTG 735
Db 17 AGGGCATGAGCTGCGTG 1

RESULT 70
```

```
US-09-776-474-847/c
; Sequence 847, Application US/09776474
; Publication No. US20030087847A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Jarvis, Thale
; APPLICANT: Boohar, Robert
; APPLICANT: Holman, Patricia
; APPLICANT: Fattaey, Ali
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Checkpoint Kinase-1 (CHK)
; FILE REFERENCE: MBH00-955-A (400/008)
; CURRENT APPLICATION NUMBER: US/09/776,474
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,983
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 2992
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 847
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
US-09-776-474-847

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 800 TTCTTCAGGAGAGCA 816
Db 17 TTCTTCTACTAGAGCA 1

RESULT 71
US-10-156-306-2834
; Sequence 2834, Application US/10156306
; Publication No. US20030119017A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2834
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-2834

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 39;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1273 GATTCAGACTTTCGAC 1289
Db 1 GAUGGAGACUUGGAC 17

RESULT 72
US-10-339-793-195/c
; Sequence 195, Application US/10339793
; Publication No. US20030180764A1
; GENERAL INFORMATION:
; APPLICANT: Lynx Therapeutics, Inc.
; APPLICANT: Shang, Jin
; APPLICANT: Bowen, Benjamin
```

```
; TITLE OF INVENTION: GENES AFFECTED BY CHOLESTEROL TREATMENT AND DURING ADIPOGENESIS
; FILE REFERENCE: 37-00031005
; CURRENT APPLICATION NUMBER: US/10/339,793
; CURRENT FILING DATE: 2003-01-08
; NUMBER OF SEQ ID NOS: 443
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 195
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-339-793-195

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1082 TGAACACACCCAGATC 1098
    ||||| |||||
Db 17 TGCACACACCCAGATC 1

RESULT 73
US-10-230-006-801/c
; Sequence 801, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Fosnaugh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDIT
; FILE REFERENCE: 400/056 (WBHB01-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 801
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-801

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1469 TGGGGAAGTGAATGA 1485
    ||||| |||||
Db 17 TGGAGATCTGAATGA 1

RESULT 74
US-10-308-503-111/c
; Sequence 111, Application US/10308503
; Publication No. US20030191080A1
; GENERAL INFORMATION:
; APPLICANT: PHILLIPS, M. IAN
; APPLICANT: ZHANG, YUAN
; TITLE OF INVENTION: ANTISENSE COMPOSITIONS TARGETED TO BETAL-ADRENOCEPTOR-SPECIFIC MR
; FILE REFERENCE: 4300.013900
; CURRENT APPLICATION NUMBER: US/10/308,503
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: US/09/614,034
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 09/152,717
; PRIOR FILING DATE: 1998-09-14
; PRIOR APPLICATION NUMBER: PCT/US99/21007
; PRIOR FILING DATE: 1999-09-14
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 111
```

```
; LENGTH: 17
; TYPE: DNA
; ORGANISM: UNKNOWN
; FEATURE:
; OTHER INFORMATION: SYNTHETIC OLIGONUCLEOTIDE
US-10-308-503-111

Query Match          0.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 685 AGCCCCGCATGGCGCG 701
    ||||| |||||
Db 17 AGCTCGCATGGCGCG 1

RESULT 75
US-10-297-068-950/c
; Sequence 950, Application US/10297068
; Publication No. US20030228585A1
; GENERAL INFORMATION:
; APPLICANT: INOKO, Hidetoshi
; APPLICANT: KAGIYA, Taeko
; APPLICANT: ICHIHARA, Tatsuo
; APPLICANT: Matsumura, Yoshiyuki
; APPLICANT: MORIYA, Shogo
; APPLICANT: NISHIDA, Michio
; TITLE OF INVENTION: KIT AND METHOD FOR DETERMINING HLA TYPES
; FILE REFERENCE: 1314OP1174
; CURRENT APPLICATION NUMBER: US/10/297,068
; CURRENT FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: JP 2000-164798
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 1298
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 950
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:capture
US-10-297-068-950

Query Match          0.6%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 34;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1640 CTTTCCTCTCTCCT 1654
    ||||| |||||
Db 15 CTTTCCTCTCTCCT 1

RESULT 76
US-09-504-231A-486
; Sequence 486, Application US/09504231A
; Patent No. US20020013458A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Favco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: rpi 247/282
; CURRENT APPLICATION NUMBER: US/09/504,231A
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
```

```
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 486
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-504-231A-486

Query Match      0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 39;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGGAAA 1158
Db 2 AUGCCUCAGGAAA 14

RESULT 77
US-09-274-553D-486
; Sequence 486, Application US/09274553D
; Patent No. US20020082225A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: IPI 247/282
; CURRENT APPLICATION NUMBER: US/09/274,553D
; CURRENT FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3148
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 486
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-274-553D-486

Query Match      0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 39;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGGAAA 1158
Db 2 AUGCCUCAGGAAA 14

RESULT 78
US-10-440-850-972
; Sequence 972, Application US/10440850
; Publication No. US20030207837A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Jarvis, Thale
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for the Induction of Graft Tolerance and Rever
; TITLE OF INVENTION: Immune Responses
; FILE REFERENCE: 250/130 (MBH800-900-A)
```

```
; CURRENT APPLICATION NUMBER: US/10/440,850
; CURRENT FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US/09/650,012
; PRIOR FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: US 08/585,684
; PRIOR FILING DATE: 1996-01-12
; PRIOR APPLICATION NUMBER: US 60/000,951
; PRIOR FILING DATE: 1995-07-07
; PRIOR APPLICATION NUMBER: US 09/038,073
; PRIOR FILING DATE: 1998-03-11
; NUMBER OF SEQ ID NOS: 2285
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 972
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Mus musculus
US-10-440-850-972

Query Match      0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 61.5%; Pred. No. 39;
Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 561 CTGGGTTTCTACC 573
Db 1 CUGGGUUUUCUACC 13

RESULT 79
US-10-308-503-103/c
; Sequence 103, Application US/10308503
; Publication No. US20030191080A1
; GENERAL INFORMATION:
; APPLICANT: PHILLIPS, M. TAN
; APPLICANT: ZHANG, YUAN
; TITLE OF INVENTION: ANTISENSE COMPOSITIONS TARGETED TO BETA1-ADRENOCEPTOR-SPECIFIC mR
; FILE REFERENCE: 4300.013900
; CURRENT APPLICATION NUMBER: US/10/308,503
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: US/09/614,034
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 09/152,717
; PRIOR FILING DATE: 1998-09-14
; PRIOR APPLICATION NUMBER: PCT/US99/21007
; PRIOR FILING DATE: 1999-09-14
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 103
; LENGTH: 16
; TYPE: DNA
; ORGANISM: UNKNOWN
; FEATURE:
; OTHER INFORMATION: SYNTHETIC OLIGONUCLEOTIDE
US-10-308-503-103

Query Match      0.6%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 48;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 685 AGCCCGCATGGCGC 700
Db 16 AGCTCGCATGGCGC 1

RESULT 80
US-10-001-835-27
; Sequence 27, Application US/10001835
; Publication No. US20020160367A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Caffarkey, Robert
```

```
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Ovary Specific Genes and Pro
; FILE REFERENCE: DEX-0277
; CURRENT APPLICATION NUMBER: US/10/001,835
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/249,997
; PRIOR FILING DATE: 2000-11-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-001-835-27

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 47;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1156 AATAACAATAAA 1169
Db 2 AATAACAATAAA 15

RESULT 81
US-10-010-802-194
; Sequence 194, Application US/10010802
; Publication No. US20030078220A1
; GENERAL INFORMATION:
; APPLICANT: Genaisance Pharmaceuticals
; APPLICANT: Chew, Anne
; APPLICANT: Denton, R. Rex
; APPLICANT: Duda, Amy
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Stephens, J. Claiborne
; APPLICANT: Windemuth, Andreas
; TITLE OF INVENTION: Drug Target Isoenes: Polymorphisms in the Interleukin
; FILE REFERENCE: 4 Receptor Alpha Gene
; FILE REFERENCE: MMH-0002US2 IL4R alpha
; CURRENT APPLICATION NUMBER: US/10/010,802
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: PCT/US00/19094
; PRIOR FILING DATE: 2000-07-13
; NUMBER OF SEQ ID NOS: 413
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 194
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-010-802-194

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 47;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 741 TGTGGAGACAGAC 754
Db 2 TGTGGAGACAGGC 15

RESULT 82
US-10-287-919-2642/c
; Sequence 2642, Application US/10287919
; Publication No. US20030085830A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Methanococcus jannaschii complete genome.
; FILE REFERENCE: Jim Zeger Law Offices- 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/287,919
; CURRENT FILING DATE: 2002-11-05
; NUMBER OF SEQ ID NOS: 2706
; SOFTWARE: Proprietary
```

```
; SEQ ID NO 2642
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Methanococcus jannaschii complete genome.
; FEATURE:
; LOCATION: (1606834)...(1606848)
; OTHER INFORMATION: Chromosome = 1 Strand = positive ConnectonObjectNumber = 3369
; US-10-287-919-2642

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 47;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1161 ACAAATAAAATTTT 1174
Db 14 AGAAATAAAATTTT 1

RESULT 83
US-10-274-095-3/c
; Sequence 3, Application US/10274095
; Publication No. US20030120433A1
; GENERAL INFORMATION:
; APPLICANT: Yokota, Hiroki
; APPLICANT: Sun, Hui Bin
; TITLE OF INVENTION: Methods for Predicting Transcription
; FILE REFERENCE: ARTI.0137US
; CURRENT APPLICATION NUMBER: US/10/274,095
; CURRENT FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: 60/329,961
; PRIOR FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment
; US-10-274-095-3

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 47;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 CGTATGCCAGCTGA 634
Db 15 CGTATGCCCTGCTGA 2

RESULT 84
US-10-440-850-319/c
; Sequence 319, Application US/10440850
; Publication No. US20030207837A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Jarvis, Thale
; APPLICANT: McSwigen, Jim
; TITLE OF INVENTION: Method and Reagent for the Induction of Graft Tolerance and Rever
; FILE REFERENCE: 250/130 (MEHSC0-900-A)
; CURRENT APPLICATION NUMBER: US/10/440,850
; CURRENT FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US/09/650,012
; PRIOR FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: US 08/585,684
; PRIOR FILING DATE: 1996-01-12
; PRIOR APPLICATION NUMBER: US 60/000,951
; PRIOR FILING DATE: 1995-07-07
; PRIOR APPLICATION NUMBER: US 09/038,073
; PRIOR FILING DATE: 1998-03-11
```

```
; NUMBER OF SEQ ID NOS: 2285
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 319
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Mus musculus
US-10-440-850-319

Query Match          0.6%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 47;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 545 ATCTATTATTCCA 558
DB 15 ATCTATTATTCCA 2

RESULT 85
US-10-002-491-44
; Sequence 44, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-44

Query Match          0.6%; Score 12.2; DB 1; Length 20;
Best Local Similarity 82.4%; Pred. No. 88;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 23 ACCTCATTGTCCTCCG 39
DB 4 ACCTCAGTTTCTCCCTG 20

RESULT 86
US-09-504-231A-450
; Sequence 450, Application US/09504231A
; Patent No. US20020013458A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: rpi 247/282
; CURRENT APPLICATION NUMBER: US/09/504,231A
; CURRENT FILING DATE: 2000-02-15
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 450
; LENGTH: 15
```

```
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-504-231A-450

Query Match          0.5%; Score 12; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 593 GTACTCTCTCTGG 604
DB 1 GUACUCUCUCCUGG 12

RESULT 87
US-09-504-231A-1190
; Sequence 1190, Application US/09504231A
; Patent No. US20020013458A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: rpi 247/282
; CURRENT APPLICATION NUMBER: US/09/504,231A
; CURRENT FILING DATE: 2000-02-15
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1190
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-504-231A-1190

Query Match          0.5%; Score 12; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 593 GTACTCTCTCTGG 604
DB 3 GUACUCUCUCCUGG 14

RESULT 88
US-09-274-553D-450
; Sequence 450, Application US/09274553D
; Patent No. US2002008225A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: rpi 247/282
; CURRENT APPLICATION NUMBER: US/09/274,553D
; CURRENT FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
```

; PRIOR FILING DATE: 1999-02-24  
; PRIOR APPLICATION NUMBER: 60/100,842  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/083,217  
; PRIOR FILING DATE: 1998-04-27  
; NUMBER OF SEQ ID NOS: 3148  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 450  
; LENGTH: 15  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target  
US-09-274-553D-450

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 66.7%; Pred. No. 54;  
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 593 GTACTCTCTGG 604  
|:|:|:|:|:  
Db 1 GUACUCUCCUGG 12

RESULT 89  
US-09-274-553D-1190  
; Sequence 1190, Application US/09274553D  
; Patent No. US20020082225A1  
; GENERAL INFORMATION:  
; APPLICANT: Blatt, Lawrence  
; APPLICANT: McSwiggen, James  
; APPLICANT: Roberts, Beth  
; APPLICANT: Pavco, Pamela  
; APPLICANT: Macejak, Dennis  
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE  
; FILE REFERENCE: IPI 247/282  
; CURRENT APPLICATION NUMBER: US/09/274,553D  
; PRIOR FILING DATE: 1999-03-23  
; PRIOR APPLICATION NUMBER: 09/257,608  
; PRIOR FILING DATE: 1999-02-24  
; PRIOR APPLICATION NUMBER: 60/100,842  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/083,217  
; PRIOR FILING DATE: 1998-04-27  
; NUMBER OF SEQ ID NOS: 3148  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1190  
; LENGTH: 15  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target  
US-09-274-553D-1190

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 66.7%; Pred. No. 54;  
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 593 GTACTCTCTGG 604  
|:|:|:|:|:  
Db 3 GUACUCUCCUGG 14

RESULT 90  
US-10-197-019-28/c  
; Sequence 28, Application US/10197019  
; Publication No. US20030207284A1  
; GENERAL INFORMATION:  
; APPLICANT: Chew, Anne  
; APPLICANT: Denton, R. Rex  
; APPLICANT: Gilson, Christopher Raleigh  
; APPLICANT: Nandabalan, Krishnan

; APPLICANT: Parks, Katie E.  
; TITLE OF INVENTION: HAPLOTYPES OF THE UCP2 GENE  
; FILE REFERENCE: MMH-0042US  
; CURRENT APPLICATION NUMBER: US/10/197,019  
; CURRENT FILING DATE: 2002-07-16  
; PRIOR APPLICATION NUMBER: PCT/US01/02485  
; PRIOR FILING DATE: 2001-01-25  
; NUMBER OF SEQ ID NOS: 116  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 28  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-197-019-28

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 54;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 745 GAGACAGAGCCTCT 758  
|:|:|:|:|:  
Db 15 GRGACAGAGACTCT 2

RESULT 91  
US-10-197-019-48/c  
; Sequence 48, Application US/10197019  
; Publication No. US20030207284A1  
; GENERAL INFORMATION:  
; APPLICANT: Chew, Anne  
; APPLICANT: Denton, R. Rex  
; APPLICANT: Gilson, Christopher Raleigh  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Parks, Katie E.  
; TITLE OF INVENTION: HAPLOTYPES OF THE UCP2 GENE  
; FILE REFERENCE: MMH-0042US  
; CURRENT APPLICATION NUMBER: US/10/197,019  
; CURRENT FILING DATE: 2002-07-16  
; PRIOR APPLICATION NUMBER: PCT/US01/02485  
; PRIOR FILING DATE: 2001-01-25  
; NUMBER OF SEQ ID NOS: 116  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 48  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-197-019-48

Query Match 0.5%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 54;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 974 ACTGAGAAAAATG 987  
|:|:|:|:|:  
Db 14 MCTGAGAAAAAAGG 1

RESULT 92  
US-10-443-694-43/c  
; Sequence 43, Application US/10443694  
; Publication No. US20040001846A1  
; GENERAL INFORMATION:  
; APPLICANT: Israeli, Ron S  
; APPLICANT: Heston, Warren D.W.  
; APPLICANT: Fair, William R  
; APPLICANT: Overfelli, Ouathek  
; APPLICANT: Panto, John  
; TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND USES THEREOF  
; FILE REFERENCE: 1769/41426-GB  
; CURRENT APPLICATION NUMBER: US/10/443,694  
; CURRENT FILING DATE: 2003-05-21  
; PRIOR APPLICATION NUMBER: US 08/705,477  
; PRIOR FILING DATE: 1996-08-29



```
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-443-694-43

Query Match      0.5%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1583 ACTCTTGATGT 1594
Db 12 ACTCTTGATGT 1

RESULT 93
US-10-443-694-48
; Sequence 48, Application US/10443694
; Publication No. US20040001846A1
; GENERAL INFORMATION:
; APPLICANT: Israel, Ron S
; APPLICANT: Heston, Warren D.W.
; APPLICANT: Fair, William R
; APPLICANT: Overfelli, Ouathak
; APPLICANT: Pinto, John
; TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND USES THEREOF
; FILE REFERENCE: 1789/41426-GB
; CURRENT APPLICATION NUMBER: US/10/443,694
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: US 08/705,477
; PRIOR FILING DATE: 1996-08-29
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 48
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-443-694-48

Query Match      0.5%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1600 AAAAGTTTGTA 1611
Db 2 AAAAGTTTGTA 13

RESULT 94
US-10-002-491-19
; Sequence 19, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-19

Query Match      0.5%; Score 12; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 93;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1196 AGAAAAATTTTCT 1207
Db 4 AGAAAAATTTTCT 15

RESULT 95
US-10-002-491-15
; Sequence 15, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-15

Query Match      0.5%; Score 11.6; DB 1; Length 20;
Best Local Similarity 77.8%; Pred. No. 1e-02;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 374 CATTGAACATTCCTTTT 391
Db 1 CAGCCACATTCCTTTT 18

RESULT 96
US-10-002-491-16
; Sequence 16, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 16
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-16

Query Match      0.5%; Score 11.6; DB 1; Length 20;
Best Local Similarity 77.8%; Pred. No. 1e-02;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 943 TGTTAAGTGAATTCAGT 960
Db 1 TTTACTGTAATTCAGT 18

RESULT 97
US-10-002-491-4/c
; Sequence 4, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
```

```

; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 4
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-002-491-4

```

Query Match 0.5%; Score 11.6; DB 1; Length 27;  
Best Local Similarity 65.4%; Pred. No. 1.2e+02;  
Matches 17; Conservative 0; Mismatches 9; Indels

Qy 240 TCTCTAGTTTCCCTGGATTCTTCTG 265  
||| ||| ||| ||| ||| ||| ||| |||  
Db 27 TTTCTCAGTCGCTTAGATTACACTG 2

RESULT 98  
US-09-866-108-9953/c  
Sequence 9953, Application US/09866108  
Patent No. US20020048800A1  
GENERAL INFORMATION:  
APPLICANT: GU, Yizhong  
APPLICANT: JI, Yonggang  
APPLICANT: PENN, Sharon G.  
APPLICANT: HANZEL, David K.  
APPLICANT: RANK, David R.  
APPLICANT: CHEN, Wensheng  
APPLICANT: SHANNON, Mark  
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
FILE REFERENCE: AEOmica-7  
CURRENT APPLICATION NUMBER: US/09/866,108  
CURRENT FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: GB 24263,6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 60/266,860  
PRIOR FILING DATE: 2001-02-05  
NUMBER OF SEQ ID NOS: 15752  
SOFTWARE: AeoMica Sequence Listing Engine  
SEQ ID NO 9953  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-866-108-9953

```

Query Match      0.5%; Score 11.2; DB 1; Length 17;
Best Local Similarity 81.2%; Pred. NO. 89;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1796 AGTCCTTTTCTCTC 1811
      |||||
Db 16 AGCTCAGTTTCTCCC 1

```

RESULT 99  
US-09-866-108-9952/c  
; Sequence 9952, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOmica-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,455  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/006656  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006657  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006654  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006659  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006655  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006658  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006653  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006652  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006651  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/006670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: AeoMica Sequence Listing Engine  
; SEQ ID NO 9952  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-9952

Query Match	0.5%	Score 11.2	DB 1	Length 17
Best Local Similarity	91.2%	Ered. No. 89		
Matches 13	Conservative	0	Mismatches 3	Indels 0
QY	1796	AGCTCCTTTTCTCTC	1811	
Db	17	AGCTCAGTTTCTCC	2	

```
RESULT 100
US-10-002-491-49
; Sequence 49, Application US/10002491
; Publication No. US20030109467A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF FXR EXPRESSION
; FILE REFERENCE: RTS-0239
; CURRENT APPLICATION NUMBER: US/10/002,491
; CURRENT FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-002-491-49
```

```
Query Match          0.5%; Score 11; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1414 ATAGTGGTATC 1424
        |||||
Db       1 ATAGTGGTATC 11
```

```
Search completed: April 8, 2004, 15:26:55
Job time : 3 secs
```

GenCore version 5.1.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 8, 2004, 15:22:23 ; Search time 5 Seconds

(without alignments)  
2.991 Million cell updates/sec

Title: us-10-002-491-3

Perfect score: 2218

Sequence: 1 acgagactctctctctcc.....aaaaaaaaaaaaaaaaaaaa 2218

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 203 seqs, 3371 residues

Total number of hits satisfying chosen parameters: 406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 210 summaries

Database : rngdb.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	27	1.2	27	1	AAL61322 Human farnesoid X
2	27	1.2	27	1	AAL61320 Human farnesoid X
3	24.8	1.1	28	1	ACF58014 Mouse npEXRA RNA e
4	23.6	1.1	29	1	AP32963 Degenerate probe b
5	23	1.0	23	1	AAL61321 Human farnesoid X
6	20	0.9	20	1	AAL61331 Human FXR antisens
7	20	0.9	20	1	AAL61336 Human FXR antisens
8	20	0.9	20	1	AAL61338 Human FXR antisens
9	20	0.9	20	1	AAL61357 Human FXR antisens
10	20	0.9	20	1	AAL61387 Human FXR antisens
11	20	0.9	20	1	AAL61389 Human FXR antisens
12	20	0.9	20	1	AAL61361 Human FXR antisens
13	20	0.9	20	1	AAL61384 Human FXR antisens
14	20	0.9	20	1	AAL61337 Human FXR antisens
15	20	0.9	20	1	AAL61372 Human FXR antisens
16	20	0.9	20	1	AAL61378 Human FXR antisens
17	20	0.9	20	1	AAL61376 Human FXR antisens
18	20	0.9	20	1	AAL61392 Human FXR antisens
19	20	0.9	20	1	AAL61388 Human FXR antisens
20	20	0.9	20	1	AAL61365 Human FXR antisens
21	20	0.9	20	1	AAL61328 Human FXR antisens
22	20	0.9	20	1	AAL61335 Human FXR antisens
23	20	0.9	20	1	AAL61358 Human FXR antisens
24	20	0.9	20	1	AAL61367 Human FXR antisens
25	20	0.9	20	1	AAL61371 Human FXR antisens
26	20	0.9	20	1	AAL61379 Human FXR antisens
27	20	0.9	20	1	AAL61359 Human FXR antisens
28	20	0.9	20	1	AAL61370 Human FXR antisens
29	20	0.9	20	1	AAL61375 Human FXR antisens
30	20	0.9	20	1	AAL61385 Human FXR antisens
31	20	0.9	20	1	AAL61386 Human FXR antisens
32	20	0.9	20	1	AAL61332 Human FXR antisens
33	20	0.9	20	1	AAL61335 Human FXR antisens

C 34	20	0.9	20	1	AAL61364 Human FXR antisens
C 35	20	0.9	20	1	AAL61360 Human FXR antisens
C 36	20	0.9	20	1	AAL61386 Human FXR antisens
C 37	20	0.9	20	1	AAL61374 Human FXR antisens
C 38	20	0.9	20	1	AAL61333 Human FXR antisens
C 39	20	0.9	20	1	AAL61334 Human FXR antisens
C 40	20	0.9	20	1	AAL61362 Human FXR antisens
C 41	20	0.9	20	1	AAL61363 Human FXR antisens
C 42	20	0.9	20	1	AAL61383 Human FXR antisens
C 43	20	0.9	20	1	AAL61390 Human FXR antisens
C 44	20	0.9	20	1	AAL61329 Human FXR antisens
C 45	20	0.9	20	1	AAL61330 Human FXR antisens
C 46	20	0.9	20	1	AAL61356 Human FXR antisens
C 47	20	0.9	20	1	AAL61377 Human FXR antisens
C 48	20	0.9	20	1	AAL61380 Human FXR antisens
C 49	20	0.9	20	1	AAL61339 Human FXR antisens
C 50	20	0.9	20	1	AAL61368 Human FXR antisens
C 51	20	0.9	20	1	AAL61369 Human FXR antisens
C 52	20	0.9	20	1	AAL61373 Human FXR antisens
C 53	20	0.9	20	1	AAL61381 Human FXR antisens
C 54	19.4	0.9	24	1	ABL40671 Human Fe-S protein
C 55	19	0.9	23	1	AAF55665 Human MCP4 oligonu
C 56	16.8	0.8	20	1	ABZ38075 Human MCP4 oligonu
C 57	16.8	0.8	20	1	ABZ38075 Human MCP4 oligonu
C 58	16.8	0.8	20	1	ABZ38075 Human MCP4 oligonu
C 59	16.4	0.7	19	1	AAF89442 Human genetic mark
C 60	16.4	0.7	19	1	AAD50206 Human glucocerebro
C 61	16.4	0.7	19	1	ABT44411 Chimeric antisense
C 62	15.4	0.7	17	1	ABN09961 Human GMPLP-1 17-m
C 63	15.4	0.7	17	1	ADC24242 Human NOV1b revers
C 64	15	0.7	18	1	AAV66781 CAPS marker PCR pr
C 65	14.6	0.7	24	1	ABL40671 Human Fe-S protein
C 66	14.4	0.6	16	1	AAAS6770 BR2 protein ribozy
C 67	14.4	0.6	16	1	AAAS6813 Target validation
C 68	14.4	0.6	16	1	ADD20023 Oreochromis niloti
C 69	14.4	0.6	17	1	AAQ38874 DNA primer for con
C 70	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 71	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 72	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 73	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 74	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 75	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 76	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 77	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 78	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 79	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 80	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 81	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 82	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 83	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 84	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 85	14.4	0.6	17	1	AAQ38874 Human c-myb hamme
C 86	14	0.6	17	1	AAQ38874 Human c-myb hamme
C 87	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 88	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 89	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 90	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 91	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 92	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 93	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 94	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 95	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 96	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 97	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 98	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 99	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 100	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 101	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 102	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 103	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 104	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 105	13.8	0.6	17	1	AAQ38874 Human c-myb hamme
C 106	13.8	0.6	17	1	AAQ38874 Human c-myb hamme

107	13.8	0.6	17	1	ABK17696	Human ERG hamster
108	13.8	0.6	17	1	ABK17827	Human ERG hamster
109	13.8	0.6	17	1	ABT38914	Tumour suppression
110	13.8	0.6	17	1	ABT39538	Tumour suppression
111	13.8	0.6	17	1	ABT38532	Tumour suppression
112	13.8	0.6	17	1	ABT34842	Tumour suppression
113	13.8	0.6	17	1	ACA09096	NFKB sub-unit modu
114	13.8	0.6	17	1	ACB09096	MT4-MMP catalytic
115	13.8	0.6	17	1	ACB20919	Murine oligonucleo
116	13.8	0.6	17	1	ACB65419	Tumour suppression
117	13.8	0.6	17	1	ABD40369	Tumour suppression
118	13.8	0.6	17	1	ABD40537	Cholesterol homeos
119	13.8	0.6	17	1	ADB30808	Apo(a) mRNA (nt. p
120	13.4	0.6	15	1	AAV37715	ErbB-2 gene antisense
121	13.4	0.6	15	1	AAV48847	IGFBP3 oligonucleo
122	13.4	0.6	15	1	AAV47936	Human HLA genotypi
123	13.4	0.6	15	1	ABL31441	Human CREAM prote
124	13.4	0.6	16	1	AAI64950	Human ribozyme tar
125	13.3	0.6	13	1	AAV10983	Oligonucleotide SE
126	13.3	0.6	13	1	ABC82063	Oligonucleotide SE
127	13.3	0.6	13	1	ABF77671	Oligonucleotide SE
128	13.3	0.6	13	1	ABF42907	Oligonucleotide SE
129	13.3	0.6	13	1	ABF60108	Oligonucleotide SE
130	13.3	0.6	13	1	ABF90851	Oligonucleotide SE
131	13.3	0.6	13	1	ABC01400	Oligonucleotide SE
132	13.3	0.6	13	1	ABH40300	Oligonucleotide SE
133	13.3	0.6	13	1	ABC82062	Oligonucleotide SE
134	13.3	0.6	13	1	ABC08004	Oligonucleotide SE
135	13.3	0.6	13	1	ABC37607	Oligonucleotide SE
136	13.3	0.6	13	1	ABC64450	Oligonucleotide SE
137	13.3	0.6	13	1	ABC39964	Oligonucleotide SE
138	13.3	0.6	13	1	ABC79783	Oligonucleotide SE
139	13.3	0.6	13	1	ABC39965	Oligonucleotide SE
140	13.3	0.6	13	1	ABF20975	Oligonucleotide SE
141	13.3	0.6	13	1	ABF53585	Oligonucleotide SE
142	13.3	0.6	13	1	ABF94684	Oligonucleotide SE
143	13.3	0.6	13	1	ABF77670	Oligonucleotide SE
144	13.3	0.6	13	1	ABF60109	Oligonucleotide SE
145	13.3	0.6	13	1	ABC8408	Oligonucleotide SE
146	13.3	0.6	13	1	ABC97982	Oligonucleotide SE
147	13.3	0.6	13	1	ABC07509	Oligonucleotide SE
148	13.3	0.6	13	1	ABF20974	Oligonucleotide SE
149	13.3	0.6	13	1	ABF42906	Oligonucleotide SE
150	13.3	0.6	13	1	ABF89708	Oligonucleotide SE
151	13.3	0.6	13	1	ABF86380	Oligonucleotide SE
152	13.3	0.6	13	1	ABC01401	Oligonucleotide SE
153	13.3	0.6	13	1	ABC64451	Oligonucleotide SE
154	13.3	0.6	13	1	ABF86381	Oligonucleotide SE
155	13.3	0.6	13	1	ABC07508	Oligonucleotide SE
156	13.3	0.6	13	1	ABF51767	Oligonucleotide SE
157	13.3	0.6	13	1	ABF90850	Oligonucleotide SE
158	13.3	0.6	13	1	ABC08005	Oligonucleotide SE
159	13.3	0.6	13	1	ABF51766	Oligonucleotide SE
160	13.3	0.6	13	1	ABH40301	Oligonucleotide SE
161	13.3	0.6	13	1	ABC37606	Oligonucleotide SE
162	13.3	0.6	13	1	ABF88709	Oligonucleotide SE
163	13.3	0.6	13	1	ABF94685	Oligonucleotide SE
164	13.3	0.6	13	1	ABF53584	Oligonucleotide SE
165	13.3	0.6	14	1	AAQ92723	ErbB-2 antisense
166	13.3	0.6	14	1	AAV48848	ErbB-2 gene antisense
167	13.3	0.6	14	1	AAV48849	Mouse CD40 hamster
168	13.3	0.6	15	1	AAZ66868	Substrate for HH r
169	13.3	0.6	15	1	AAZ62853	Human P450(cytochr
170	13.3	0.6	15	1	ABN80545	Human EDG6 gene al
171	13.3	0.6	15	1	ABL45821	Hepatitis C virus
172	13.3	0.6	15	1	ABX00704	Hepatitis C virus
173	12.8	0.6	16	1	AAI90604	HIV-1 protease gen
174	12.8	0.6	16	1	AAZ97721	Hepatitis C virus
175	12.8	0.6	16	1	AAAI3421	Human betal-adreno
176	12.8	0.6	16	1	ABK40647	Hepatitis C recogn
177	12.8	0.6	16	1	ABX74340	Mouse nprXa RNA e
178	12.8	0.6	28	1	ACF58014	Oligonucleotide SE
179	12.6	0.6	13	1	ABC04480	

ALIGNMENTS

RESULT 1	
AAI61322	
ID	AAI61322 standard; DNA; 27 BP.
XX	AAI61322;
AC	AAI61322;
XX	22-SEP-2003 (first entry)
DT	Human farnesoid X receptor (FXR) DNA specific PCR probe.
DE	Human farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
KW	Human; farnesoid X receptor; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;
KW	atherosclerosis; retinoid X receptor-interacting protein 14; R1P14; PCR; probe; ss.
XX	Homo sapiens.
OS	Homo sapiens.
XX	Key
FX	Location/Qualifiers
FT	modified_base 1
FT	/tag= a
FT	/mod_base= OTHER
FT	/note= "FAM labelled"
FT	27
FT	modified_base
FT	/tag= b
FT	/mod_base= OTHER
FT	/note= "TAMRA labelled"
XX	WC2003044167-A2.
FN	
XX	30-MAY-2003.
PD	13-NOV-2002; 2002WC-US036691.
XX	
PD	15-NOV-2001; 2001US-00002491.
XX	
PA	(ISIS-) ISIS PHARM INC.
XX	Monia BP, Watt AT;
PI	



SQ Sequence 28 BP; 5 A; 2 C; 10 G; 11 T; 0 U; 0 Other;  
 Query Match 1.1%; Score 24.8; DB 1; Length 28;  
 Best Local Similarity 92.9%; Pred. No. 0.87;  
 Matches 26; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 924 GGAATGTTGGCTGAATGCTTTGTTAACTG 951  
 Db 1 GGGATGTTGGCTGAATGTTGTTAACTG 28  
 RESULT 4  
 AAT32963  
 ID AAT32963 standard; DNA; 29 BP.  
 XX AC AAT32963;  
 XX AC AAT32963;  
 DT 31-JAN-1997 (first entry)  
 XX DE Degenerate probe based on P-box/DNA recognition helix.  
 XX KW Farnesoid-activated receptor polypeptide; nuclear receptor;  
 XX KW transcription factor; intracellular metabolites; farnesol; regulation;  
 XX KW biosynthesis; lipid; mevalonate; ss.  
 XX OS Synthetic.  
 XX PN W09621742-A1.  
 XX PD 18-JUL-1996.  
 XX PF 28-DEC-1995; 95WO-US017023.  
 XX PR 13-JAN-1995; 95US-00372183.  
 XX PA (SALK) SALK INST BIOLOGICAL STUDIES.  
 XX PI Evans RM, Forman BM, Weinberger CA;  
 XX DR WPI; 1996-342294/34.  
 XX DR P-PSDB; AAW03449.  
 XX PT Modulating processes mediated by farnesoid-activated receptor - with a  
 XX PT farnesoid cpd., e.g. for regulation of the mevalonate pathway of lipid  
 XX PT synthesis.  
 XX PS Example 1; Page 14; 45pp; English.  
 XX CC The farnesoid-activated receptor polypeptide (AAW03448) is a nuclear  
 CC receptor (transcription factor) regulated by intracellular metabolites  
 CC such as farnesol and related compounds. Control over farnesoid-activated  
 CC receptor polypeptide mediated processes may allow regulation of key  
 CC pathways, especially the mevalonate pathway, or lipid biosynthesis. This  
 CC degenerate oligonucleotide corresponding to a highly conserved region the  
 CC P-box/DNA recognition helix of the nuclear receptor superfamily DNA  
 CC binding domain was used to screen a cDNA library from mouse hepatoma Hepa  
 CC -1c1c7. Two new orphan receptor sequences were found and one of them used  
 CC to screen a cDNA library from regenerating rat liver. A 2.1 kb sequence  
 CC encoding the farnesoid receptor polypeptide was isolated  
 SQ Sequence 29 BP; 6 A; 6 C; 7 G; 7 T; 0 U; 3 Other;  
 Query Match 1.1%; Score 23.6; DB 1; Length 29;  
 Best Local Similarity 82.1%; Pred. No. 1.5;  
 Matches 23; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 780 ACCTGTGAGGGGTGTAAGGTTTCTTCA 807  
 Db 1 ACCTGTGAGGGGTGTAAGGTTTCTTCA 28  
 RESULT 5  
 AAL61321/c

ID AAL61321 standard; DNA; 23 BP.  
 XX AC AAL61321;  
 XX AC AAL61321;  
 DT 22-SEP-2003 (first entry)  
 XX DE Human farnesoid X receptor (FXR) DNA specific reverse PCR primer.  
 XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; RIP14; PCR; primer; ss.  
 XX OS Homo sapiens.  
 XX PN W02003044167-A2.  
 XX PD 30-MAY-2003.  
 XX PF 13-NOV-2002; 2002WO-US036691.  
 XX PR 15-NOV-2001; 2001US-00002491.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Monia BP, Watt AT;  
 XX DR WPI; 2003-468767/44.  
 XX PT New antisense oligonucleotides for modulating human farnesoid X receptor  
 PT (FXR) expression, useful for treating conditions associated with FXR in  
 PT humans, e.g. cardiovascular disease, atherosclerosis or  
 PT hypercholesterolemia.  
 XX PS Example 13; Page 71; 127pp; English.  
 XX CC The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is human FXR DNA specific PCR primer. This sequence is used in the  
 CC exemplification of the invention  
 XX SQ Sequence 23 BP; 5 A; 8 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 1.0%; Score 23; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 1.7; Indels 0; Gaps 0;  
 Matches 23; Conservative 0; Mismatches 0;  
 Qy 101-9 AGACAGTGAAGTGTGCTGACTTGC 1041  
 Db 23 AGACAGTGAAGTGTGCTGACTTGC 1  
 RESULT 6  
 AAL61331/c  
 ID AAL61331 standard; DNA; 20 BP.  
 XX AC AAL61331;  
 XX AC AAL61331;  
 DT 22-SEP-2003 (first entry)  
 XX DE Human FXR antisense oligonucleotide, ISIS 126474.  
 XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphothioate backbone;  
 KW RIP14; antisense; ss.

```

XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX PN WO2003044167-A2.
XX XX
XX PD 30-MAY-2003.
XX XX
XX PF 13-NOV-2002; 2002WO-US036691.
XX XX
XX PR 15-NOV-2001; 2001US-00002491.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Watt AT;
XX PI WPI; 2003-468767/44.
XX DR
XX XX
XX PT New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX PS Claim 3; Page 73; 127pp; English.
XX CC The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX SQ Sequence 20 BP; 5 A; 9 C; 1 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 917 AGAGATGGGAATGTTGCTG 936
XX |||||
XX Db 20 AGAGATGGGAATGTTGCTG 1
XX
XX RESULT 7
XX AAL61336/c
XX ID AAL61336 standard; DNA; 20 BP.
XX AC AAL61336;
XX XX
XX DT 22-SEP-2003 (first entry)
XX XX
XX DE Human FXR antisense oligonucleotide, ISIS 126492.

```

```

XX XX
XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX KW atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX KW RIP14; antisense; ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX PN WO2003044167-A2.
XX XX
XX PD 30-MAY-2003.
XX XX
XX PF 13-NOV-2002; 2002WO-US036691.
XX XX
XX PR 15-NOV-2001; 2001US-00002491.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Watt AT;
XX PI WPI; 2003-468767/44.
XX DR
XX XX
XX PT New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX PS Claim 3; Page 73; 127pp; English.
XX CC The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX SQ Sequence 20 BP; 6 A; 5 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1293 GAAGACCAGATTGCTTGTCT 1312
XX |||||
XX Db 20 GAAGACCAGATTGCTTGTCT 1
XX
XX RESULT 8
XX AAL61338/c
XX ID AAL61338 standard; DNA; 20 BP.
XX XX

```



AC AAL61338;  
 XX 22-SEP-2003 (first entry)  
 XX Human FXR antisense oligonucleotide, ISIS 126501.  
 DE  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NRIH4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW R1P14; antisense; ss.  
 XX  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT  
 XX WO2003044167-A2.  
 FN  
 XX 30-MAY-2003.  
 PD  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX 15-NOV-2001; 2001US-00002491.  
 PR  
 XX (ISIS-) ISIS PHARM INC.  
 PA Monia BP, Watt AT;  
 PI WPI; 2003-468767/44.  
 DR  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 PS Claim 3; Page 73; 127pp; English.  
 CC The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NRIH4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention  
 XX  
 SQ Sequence 20 BP; 3 A; 6 C; 2 G; 9 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1542 TACATAAAGGATAGAGGCG 1561  
 Db ||||||||||||||||||||  
 20 TACATAAAGGATAGAGGCG 1

RESULT 9  
 AAL61357/c  
 ID AAL61357 standard; DNA; 20 BP.  
 XX  
 AC AAL61357;  
 XX  
 XX 22-SEP-2003 (first entry)  
 DT  
 XX Human FXR antisense oligonucleotide, ISIS 145304.  
 DE  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NRIH4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW R1P14; antisense; ss.  
 XX  
 XX Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT  
 XX WO2003044167-A2.  
 PN  
 XX 30-MAY-2003.  
 PD  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX 15-NOV-2001; 2001US-00002491.  
 PR  
 XX (ISIS-) ISIS PHARM INC.  
 PA Monia BP, Watt AT;  
 PI WPI; 2003-468767/44.  
 DR  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 PS Claim 3; Page 74; 127pp; English.  
 CC The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NRIH4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention  
 XX  
 SQ Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX Sequence 20 BP; 5 A; 2 C; 6 G; 7 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1672 TAGGACATTCATCATCAC 1691  
 Db 20 TAGGACATTCATCATCAC 1

RESULT 12  
 AAL61361/c  
 ID AAL61361 standard; DNA; 20 BP.  
 XX AC AAL61361;  
 XX AC AAL61361;  
 DT 22-SEP-2003 (first entry)  
 DE Human FXR antisense oligonucleotide, ISIS 145308.  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX Homo sapiens.  
 OS Synthetic.

Key Location/Qualifiers  
 modified\_base 1..20  
 /tag= a  
 /mod\_base= OTHER  
 /note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"

modified\_base 1..5  
 /tag= b  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"

modified\_base 16..20  
 /tag= c  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"

WO2003044167-A2.  
 30-MAY-2003.  
 13-NOV-2002; 2002WO-US036691.  
 15-NOV-2001; 2001US-00002491.  
 (ISIS-) ISIS PHARM INC.  
 Monia BP, Watt AT;  
 WPI; 2003-468767/44.  
 New antisense oligonucleotides for modulating human farnesoid X receptor (FXR) expression, useful for treating conditions associated with FXR in humans, e.g. cardiovascular disease, atherosclerosis or hypercholesterolemia.  
 Claim 3; Page 74; 127pp; English.  
 The invention relates to antisense compounds, compositions and methods for modulating the expression of human farnesoid X receptor (FXR). FXR is also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)

CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX Sequence 20 BP; 2 A; 8 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 699 CGCTCAGCAGGAGGATCAA 718  
 Db 20 CGCTCAGCAGGAGGATCAA 1

RESULT 13  
 AAL61384/c  
 ID AAL61384 standard; DNA; 20 BP.  
 XX AC AAL61384;  
 XX AC AAL61384;  
 DT 22-SEP-2003 (first entry)  
 DE Human FXR antisense oligonucleotide, ISIS 145331.  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX Homo sapiens.  
 OS Synthetic.

Key Location/Qualifiers  
 modified\_base 1..20  
 /tag= a  
 /mod\_base= OTHER  
 /note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"

modified\_base 1..5  
 /tag= b  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"

modified\_base 16..20  
 /tag= c  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"

WO2003044167-A2.  
 30-MAY-2003.  
 13-NOV-2002; 2002WO-US036691.  
 15-NOV-2001; 2001US-00002491.  
 (ISIS-) ISIS PHARM INC.  
 Monia BP, Watt AT;  
 WPI; 2003-468767/44.  
 New antisense oligonucleotides for modulating human farnesoid X receptor (FXR) expression, useful for treating conditions associated with FXR in humans, e.g. cardiovascular disease, atherosclerosis or hypercholesterolemia.

PS Claim 3; Page 74; 127pp; English.

XX The invention relates to antisense compounds, compositions and methods

CC for modulating the expression of human farnesoid X receptor (FXR). FXR is

CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)

CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for

CC inhibiting the expression of human FXR in cells or tissues. It is

CC particularly useful for treating or preventing a disease or condition

CC associated with FXR in a human, e.g. cardiovascular disease,

CC atherosclerosis or hypercholesterolaemia. The antisense compound is

CC useful for diagnostics, therapeutics, prophylaxis, or as research

CC reagents or kits. It is also used in gene therapy. The present sequence

CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence

CC is used to illustrate the method of the invention

XX

SQ Sequence 20 BP; 4 A; 5 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1567 AGAAGCTTCAGGAGCCACTT 1586

Db 20 AGAAGCTTCAGGAGCCACTT 1

RESULT 14

ID AAL61337/c

XX AAL61337 standard; DNA; 20 BP.

AC AAL61337;

XX

DT 22-SEP-2003 (first entry)

DE Human FXR antisense oligonucleotide, ISIS 126494.

XX

KW Human; farnesoid X receptor; FXR; cardiovascular disease; Gene therapy;

KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;

KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;

KW RIP14; antisense; ss.

XX

OS Homo sapiens.

OS Synthetic.

XX

PH Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

XX

PN WO2003044167-A2.

XX

PD 30-MAY-2003.

XX

PF 13-NOV-2002; 2002WO-US036691.

XX

PR 15-NOV-2001; 2001US-00002491.

XX

PA (ISIS-) ISIS PHARM INC.

XX

PI Monia BP, Watt AT;

XX

DR WPI; 2003-468767/44.

XX

PT New antisense oligonucleotides for modulating human farnesoid X receptor

PT (FXR) expression, useful for treating conditions associated with FXR in

PT humans, e.g. cardiovascular disease, atherosclerosis or

PT hypercholesterolemia.

PS Example 15; Page 73; 127pp; English.

XX

CC The invention relates to antisense compounds, compositions and methods

CC for modulating the expression of human farnesoid X receptor (FXR). FXR is

CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)

CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for

CC inhibiting the expression of human FXR in cells or tissues. It is

CC particularly useful for treating or preventing a disease or condition

CC associated with FXR in a human, e.g. cardiovascular disease,

CC atherosclerosis or hypercholesterolaemia. The antisense compound is

CC useful for diagnostics, therapeutics, prophylaxis, or as research

CC reagents or kits. It is also used in gene therapy. The present sequence

CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence

CC is used to illustrate the method of the invention

XX

SQ Sequence 20 BP; 7 A; 2 C; 2 G; 9 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1354 AGATTTTCATTAAGAACTT 1373

Db 20 AGATTTTCATTAAGAACTT 1

RESULT 15

AAAL61372/c

ID AAL61372 standard; DNA; 20 BP.

XX

AC AAL61372;

XX

DT 22-SEP-2003 (first entry)

DE Human FXR antisense oligonucleotide, ISIS 145319.

XX

KW Human; farnesoid X receptor; FXR; cardiovascular disease; Gene therapy;

KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;

KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;

KW RIP14; antisense; ss.

XX

OS Homo sapiens.

OS Synthetic.

XX

PH Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

XX

PN WO2003044167-A2.

XX

PD 30-MAY-2003.

XX

PF 13-NOV-2002; 2002WO-US036691.

XX

PR 15-NOV-2001; 2001US-00002491.

XX

PA (ISIS-) ISIS PHARM INC.

```

XX PI Monia BP, Watt AT;
XX PR WPI; 2003-468767/44.
XX PA
XX (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Watt AT;
XX PR WPI; 2003-468767/44.
XX PT
XX PT New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX Claim 3; Page 74; 127pp; English.
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX Sequence 20 BP; 3 A; 5 C; 4 G; 8 T; 0 U; 0 Other;
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX QY 1143 AGGATGCTCAGGAATAAC 1162
XX DB 20 AGGATGCTCAGGAATAAC 1
XX RESULT 16
XX AAL61378/c
XX ID AAL61378 standard; DNA; 20 BP.
XX AC AAL61378;
XX XX
XX XX 22-SEP-2003 (first entry)
XX DE Human FXR antisense oligonucleotide, ISIS 145325.
XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX OS Homo sapiens.
XX XX Synthetic.
XX FH Key Location/Qualifiers
XX FT modified_base 1..20
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate backbone; All cytidines are 5-
XX FT methylcytidines"
XX FT modified_base 1..5
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"
XX FT modified_base 16..20
XX FT /*tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"
XX WO200304167-A2.
XX 30-MAY-2003.
XX PD
XX XX

```

```

PF 13-NOV-2002; 2002WO-US036691.
XX XX
XX PR 15-NOV-2001; 2001US-00002491.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Watt AT;
XX PR WPI; 2003-468767/44.
XX PT
XX PT New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX Example 15; Page 74; 127pp; English.
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX QY 1364 TAAGAACTTCGTCGGC 1383
XX DB 20 TAAGAACTTCGTCGGC 1
XX RESULT 17
XX AAL61376/c
XX ID AAL61376 standard; DNA; 20 BP.
XX AC AAL61376;
XX XX
XX XX 22-SEP-2003 (first entry)
XX DE Human FXR antisense oligonucleotide, ISIS 145323.
XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX OS Homo sapiens.
XX XX Synthetic.
XX FH Key Location/Qualifiers
XX FT modified_base 1..20
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate backbone; All cytidines are 5-
XX FT methylcytidines"
XX FT modified_base 1..5
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"
XX FT modified_base 16..20
XX FT /*tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"

```

```

XX PN WO2003044167-A2.
XX PD 30-MAY-2003.
XX PF 13-NOV-2002; 2002WO-US036691.
XX PR 15-NOV-2001; 2001US-00002491.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Watt AT;
XX DR WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Example 15; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX
XX Sequence 20 BP; 8 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
XX
Query Match 0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1332 GCTATGTTCTTCGTTTCAGC 1351
DB 20 GCTATGTTCTTCGTTTCAGC 1

RESULT 18
AAL61382/c
ID AAL61382 standard; DNA; 20 BP.
XX
XX AAL61382;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 145329.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX
XX Homo sapiens.
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= OTHER
XX
XX modified_base 1..5
XX /tag= b
XX /mod_base= OTHER

```

```

FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX
XX WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX
XX WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Claim 3; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX
XX Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
XX
Query Match 0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 GGAGTATGCTCTGCTTACAG 1512
DB 20 GGAGTATGCTCTGCTTACAG 1

RESULT 19
AAL61388/c
ID AAL61388 standard; DNA; 20 BP.
XX
XX AAL61388;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 145335.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX
XX Homo sapiens.
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= OTHER

```

```

FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT methylcytidines"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX WO2003044167-A2.
XX 30-MAY-2003.
XX 13-NOV-2002; 2002WO-US036691.
XX 15-NOV-2001; 2001US-00002491.
XX (ISIS-) ISIS PHARM INC.
XX Monia BP, Watt AT;
XX WPI; 2003-468767/44.
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX Claim 3; Page 74; 127pp; English.
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1554 TGGGTGCGCTGACTGAATTA 1673
XX Db 20 TGGGTGCGCTGACTGAATTA 1
XX
XX RESULT 20
XX AAL61365/c
XX ID AAL61365 standard; DNA; 20 BP.
XX AC AAL61365;
XX XX
XX XX 22-SEP-2003 (first entry)
XX DE Human FXR antisense oligonucleotide, ISIS 145312.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX
XX Homo sapiens.
XX OS Synthetic.

```

```

XX Key Location/Qualifiers
XX modified_base 1..20
XX /*tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone; All cytidines are 5-
XX methylcytidines"
XX modified_base 1..5
XX /*tag= b
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX modified_base 16..20
XX /*tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX WO2003044167-A2.
XX 30-MAY-2003.
XX 13-NOV-2002; 2002WO-US036691.
XX 15-NOV-2001; 2001US-00002491.
XX (ISIS-) ISIS PHARM INC.
XX Monia BP, Watt AT;
XX WPI; 2003-468767/44.
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX Claim 3; Page 74; 127pp; English.
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 751 GAGCCTCTGGATACCACCTAT 770
XX Db 20 GAGCCTCTGGATACCACCTAT 1
XX
XX RESULT 21
XX AAL61328/c
XX ID AAL61328 standard; DNA; 20 BP.
XX AC AAL61328;
XX XX
XX XX 22-SEP-2003 (first entry)
XX DE Human FXR antisense oligonucleotide, ISIS 126457.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX

```







Best Local Similarity 100.0%; Pred. No. 5.6; Mismatches 0; Indels 0; Gaps 0;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 931 TGGCTGAATGCTTGTAACT 950  
 |||||  
 Db 20 TGGCTGAATGCTTGTAACT 1

RESULT 25  
 AAL61371/c  
 ID AAL61371 standard; DNA; 20 BP.  
 AC AAL61371;  
 XX  
 XX  
 DT 22-SEP-2003 (first entry)  
 XX  
 DE Human FXR antisense oligonucleotide, ISIS 145318.  
 XX  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW R1P14; antisense; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT  
 FT  
 XX WO2003044167-A2.  
 PN  
 XX  
 XX 30-MAY-2003.  
 PD  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 PF  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 PR  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX  
 XX Monia BP, Watt AT;  
 PI  
 XX  
 XX WPI; 2003-468767/44.  
 DR  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 PT (FXR) expression, useful for treating conditions associated with FXR in  
 PT humans, e.g. cardiovascular disease, atherosclerosis or  
 PT hypercholesterolemia.  
 PT  
 PS Claim 3; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence

CC is used to illustrate the method of the invention  
 XX  
 SQ Sequence 20 BP; 2 A; 4 C; 5 G; 9 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AACAAACAGAGGATGCTCA 1153  
 |||||  
 Db 20 AACAAACAGAGGATGCTCA 1

RESULT 26  
 AAL61379/c  
 ID AAL61379 standard; DNA; 20 BP.  
 AC AAL61379;  
 XX  
 XX  
 DT 22-SEP-2003 (first entry)  
 XX  
 DE Human FXR antisense oligonucleotide, ISIS 145326.  
 XX  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW R1P14; antisense; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT  
 FT  
 XX WO2003044167-A2.  
 PN  
 XX  
 XX 30-MAY-2003.  
 PD  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 PF  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 PR  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX  
 XX Monia BP, Watt AT;  
 PI  
 XX  
 XX WPI; 2003-468767/44.  
 DR  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 PT (FXR) expression, useful for treating conditions associated with FXR in  
 PT humans, e.g. cardiovascular disease, atherosclerosis or  
 PT hypercholesterolemia.  
 PT  
 PS Example 15; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence

CC associated with FXR in a human, e.g. cardiovascular disease.  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX  
 XX  
 XX Sequence 20 BP; 5 A; 4 C; 2 G; 9 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1390 ACCATTGGAGAGAAAT 1409  
 DB 20 ACCATTGGAGAGAAAT 1

RESULT 27  
 AAL61359/c  
 ID AAL61359 standard; DNA; 20 BP.  
 XX  
 XX AAL61359;  
 AC  
 XX  
 XX  
 XX 22-SEP-2003 (first entry)  
 XX Human FXR antisense oligonucleotide, ISIS 145306.  
 DE  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIPI4; antisense; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS  
 XX  
 XX Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX  
 XX WO2003044167-A2.  
 XX  
 XX 30-MAY-2003.  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Watt AT;  
 XX  
 XX WPI; 2003-468767/44.  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 XX Example 15; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods

CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIPI4)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX  
 XX  
 XX Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 609 TATCACTCAGCGGTATGCC 628  
 DB 20 TATCACTCAGCGGTATGCC 1

RESULT 28  
 AAL61370/c  
 ID AAL61370 standard; DNA; 20 BP.  
 XX  
 XX AAL61370;  
 AC  
 XX  
 XX 22-SEP-2003 (first entry)  
 XX Human FXR antisense oligonucleotide, ISIS 145317.  
 DE  
 XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIPI4; antisense; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS  
 XX  
 XX Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX  
 XX WO2003044167-A2.  
 XX  
 XX 30-MAY-2003.  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Watt AT;  
 XX  
 XX WPI; 2003-468767/44.  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or

PT hypercholesterolemia.

XX Claim 3; Page 74; 127pp; English.

XX The invention relates to antisense compounds, compositions and methods

XX for modulating the expression of human farnesoid X receptor (FXR). FXR is

XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)

XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for

XX inhibiting the expression of human FXR in cells or tissues. It is

XX particularly useful for treating or preventing a disease or condition

XX associated with FXR in a human, e.g. cardiovascular disease,

XX atherosclerosis or hypercholesterolaemia. The antisense compound is

XX useful for diagnostics, therapeutics, prophylaxis, or as research

XX reagents or kits. It is also used in gene therapy. The present sequence

XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence

XX is used to illustrate the method of the invention

XX Sequence 20 BP; 3 A; 6 C; 3 G; 8 T; 0 U; 0 Other;

SQ Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1065 TCATGCGGGAGAACTGA 1084

DB 20 TCATGCGGGAGAACTGA 1

RESULT 29

AAL61375/c

ID AAL61375 standard; DNA; 20 BP.

XX AAL61375;

XX 22-SEP-2003 (first entry)

XX Human FXR antisense oligonucleotide, ISIS 145322.

XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;

XX atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;

XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;

XX RIP14; antisense; ss.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone; All cytidines are 5-

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

XX WO2003044167-A2.

XX 30-MAY-2003.

XX 13-NOV-2002; 2002WO-US036691.

XX 15-NOV-2001; 2001US-00002491.

XX (ISIS-) ISIS PHARM INC.

XX Monia BP, Watt AT;

XX

XX

DR WPI; 2003-468767/44.

XX New antisense oligonucleotides for modulating human farnesoid X receptor

XX (FXR) expression, useful for treating conditions associated with FXR in

XX humans, e.g. cardiovascular disease, atherosclerosis or

XX hypercholesterolemia.

XX Claim 3; Page 74; 127pp; English.

XX The invention relates to antisense compounds, compositions and methods

XX for modulating the expression of human farnesoid X receptor (FXR). FXR is

XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)

XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for

XX inhibiting the expression of human FXR in cells or tissues. It is

XX particularly useful for treating or preventing a disease or condition

XX associated with FXR in a human, e.g. cardiovascular disease,

XX atherosclerosis or hypercholesterolaemia. The antisense compound is

XX useful for diagnostics, therapeutics, prophylaxis, or as research

XX reagents or kits. It is also used in gene therapy. The present sequence

XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence

XX is used to illustrate the method of the invention

XX Sequence 20 BP; 5 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

SQ Query Match 0.9%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1264 AGCTACGAGGATTCAGACT 1283

DB 20 AGCTACGAGGATTCAGACT 1

RESULT 30

AAL61385/c

ID AAL61385 standard; DNA; 20 BP.

XX AAL61385;

XX 22-SEP-2003 (first entry)

XX Human FXR antisense oligonucleotide, ISIS 145332.

XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;

XX atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;

XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;

XX RIP14; antisense; ss.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone; All cytidines are 5-

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'methoxyethyl nucleotides"

XX WO2003044167-A2.

XX 30-MAY-2003.

XX 13-NOV-2002; 2002WO-US036691.

XX 15-NOV-2001; 2001US-00002491.

XX (ISIS-) ISIS PHARM INC.

XX Monia BP, Watt AT;

XX

XX

XX PA (ISIS-) ISIS PHARM INC.  
 XX PF Monia BP, Watt AT;  
 XX PR WPI; 2003-468767/44.  
 XX DR New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX PT (FXR) expression, useful for treating conditions associated with FXR in  
 XX FT humans, e.g. cardiovascular disease, atherosclerosis or  
 XX PT hypercholesterolemia.  
 XX PS Claim 3; Page 74; 127pp; English.  
 XX CC The invention relates to antisense compounds, compositions and methods  
 XX CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 XX CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 XX CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 XX CC inhibiting the expression of human FXR in cells or tissues. It is  
 XX CC particularly useful for treating or preventing a disease or condition  
 XX CC associated with FXR in a human, e.g. cardiovascular disease,  
 XX CC atherosclerosis or hypercholesterolemia. The antisense compound is  
 XX CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 XX CC reagents or kits. It is also used in gene therapy. The present sequence  
 XX CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 XX CC is used to illustrate the method of the invention  
 XX SQ Sequence 20 BP; 5 A; 4 C; 5 G; 6 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1608 TGTAAGATTCCAGCCTGA 1627  
 Db 20 TGTAAGATTCCAGCCTGA 1  
 RESULT 31  
 AAL61386/c  
 ID AAL61386 standard; DNA; 20 BP.  
 AC AAL61386;  
 XX 22-SEP-2003 (first entry)  
 DT Human FXR antisense oligonucleotide, IGTS 145333.  
 DE Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX WO2003044167-A2.

PD 30-MAY-2003.  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX 15-NOV-2001; 2001US-00002491.  
 XX (ISIS-) ISIS PHARM INC.  
 XX Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX PT (FXR) expression, useful for treating conditions associated with FXR in  
 XX PT humans, e.g. cardiovascular disease, atherosclerosis or  
 XX PT hypercholesterolemia.  
 XX PS Claim 3; Page 74; 127pp; English.  
 XX CC The invention relates to antisense compounds, compositions and methods  
 XX CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 XX CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 XX CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 XX CC inhibiting the expression of human FXR in cells or tissues. It is  
 XX CC particularly useful for treating or preventing a disease or condition  
 XX CC associated with FXR in a human, e.g. cardiovascular disease,  
 XX CC atherosclerosis or hypercholesterolemia. The antisense compound is  
 XX CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 XX CC reagents or kits. It is also used in gene therapy. The present sequence  
 XX CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 XX CC is used to illustrate the method of the invention  
 XX SQ Sequence 20 BP; 5 A; 1 C; 7 G; 7 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1623 CCTGAAATCTCAACACTT 1642  
 Db 20 CCTGAAATCTCAACACTT 1  
 RESULT 32  
 AAL61332/c  
 ID AAL61332 standard; DNA; 20 BP.  
 AC AAL61332;  
 XX 22-SEP-2003 (first entry)  
 DT Human FXR antisense oligonucleotide, ISIS 126476.  
 DE Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c



```

FT FT /*tag= a
FT FT /mod_base= OTHER
FT FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT FT methyleytidines"
FT FT modified_base
FT FT 1. .5
FT FT /*tag= b
FT FT /mod_base= OTHER
FT FT /note= "2'methoxyethyl nucleotides"
FT FT modified_base
FT FT 16. .20
FT FT /*tag= c
FT FT /mod_base= OTHER
FT FT /note= "2'methoxyethyl nucleotides"
XX XX WO2003044167-A2.
XX XX 30-MAY-2003.
XX XX 13-NOV-2002; 2002WO-US036691.
XX XX 15-NOV-2001; 2001US-00002491.
XX XX (ISIS-) ISIS PHARM INC.
XX XX Monia BP, Watt AT;
XX XX WPI; 2003-468767/44.
XX XX
XX XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX XX (FXR) expression, useful for treating conditions associated with FXR in
XX XX humans, e.g. cardiovascular disease, atherosclerosis or
XX XX hypercholesterolemia.
XX XX Claim 3; Page 74; 127pp; English.
XX XX
XX XX The invention relates to antisense compounds, compositions and methods
XX XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX XX inhibiting the expression of human FXR in cells or tissues. It is
XX XX particularly useful for treating or preventing a disease or condition
XX XX associated with FXR in a human, e.g. cardiovascular disease,
XX XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX XX reagents or kits. It is also used in gene therapy. The present sequence
XX XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX XX is used to illustrate the method of the invention
XX XX
XX XX Sequence 20 BP; 3 A; 6 C; 5 G; 6 T; 0 U; 0 Other;
XX XX
XX XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX XX
QY 745 GAGACAGAGCCTCTGGATAC 764
Db 20 GAGACAGAGCCTCTGGATAC 1
XX
XX AAL61360/c
XX AAL61360 standard; DNA; 20 BP.
XX
XX AAL61360;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 145307.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX XX RIP14; antisense; ss.
XX XX

```

```

OS Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base
XX 1. .20
XX /*tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone; All cytidines are 5-
XX XX methyleytidines"
XX modified_base
XX 1. .5
XX /*tag= b
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX modified_base
XX 16. .20
XX /*tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX
XX WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX
XX WPI; 2003-468767/44.
XX
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX XX (FXR) expression, useful for treating conditions associated with FXR in
XX XX humans, e.g. cardiovascular disease, atherosclerosis or
XX XX hypercholesterolemia.
XX XX Claim 3; Page 74; 127pp; English.
XX XX
XX XX The invention relates to antisense compounds, compositions and methods
XX XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX XX inhibiting the expression of human FXR in cells or tissues. It is
XX XX particularly useful for treating or preventing a disease or condition
XX XX associated with FXR in a human, e.g. cardiovascular disease,
XX XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX XX reagents or kits. It is also used in gene therapy. The present sequence
XX XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX XX is used to illustrate the method of the invention
XX XX
XX XX Sequence 20 BP; 2 A; 8 C; 3 G; 7 T; 0 U; 0 Other;
XX XX
XX XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX XX
QY 645 CAGGGAGAGAACTGAGGTAGC 664
Db 20 CAGGGAGAGAACTGAGGTAGC 1
XX
XX AAL61366/c
XX AAL61366 standard; DNA; 20 BP.
XX
XX AAL61366;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 145313.
XX
XX

```

KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX WO2003044167-A2.  
 XX  
 XX 30-MAY-2003.  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 XX Claim 3; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods  
 XX for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 XX inhibiting the expression of human FXR in cells or tissues. It is  
 XX particularly useful for treating or preventing a disease or condition  
 XX associated with FXR in a human, e.g. cardiovascular disease,  
 XX atherosclerosis or hypercholesterolaemia. The antisense compound is  
 XX useful for diagnostics, therapeutics, prophylaxis, or as research  
 XX reagents or kits. It is also used in gene therapy. The present sequence  
 XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 XX is used to illustrate the method of the invention  
 XX  
 SQ Sequence 20 BP; 5 A; 3 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 757 CTGGATACCACCTATATGCA 776  
 Db 20 CTGGATACCACCTATATGCA 1  
 |||||  
 RESULT 37  
 AAL61374/c  
 ID AAL61374 standard; DNA; 20 BP.  
 XX  
 AC AAL61374;

XX  
 DT 22-SEP-2003 (first entry)  
 XX  
 DE Human FXR antisense oligonucleotide, ISIS 145321.  
 XX  
 KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX WO2003044167-A2.  
 XX  
 XX 30-MAY-2003.  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 XX Claim 3; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods  
 XX for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 XX inhibiting the expression of human FXR in cells or tissues. It is  
 XX particularly useful for treating or preventing a disease or condition  
 XX associated with FXR in a human, e.g. cardiovascular disease,  
 XX atherosclerosis or hypercholesterolaemia. The antisense compound is  
 XX useful for diagnostics, therapeutics, prophylaxis, or as research  
 XX reagents or kits. It is also used in gene therapy. The present sequence  
 XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 XX is used to illustrate the method of the invention  
 XX  
 SQ Sequence 20 BP; 3 A; 5 C; 4 G; 8 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1213 TGACGGAATGGCAACCAAT 1232  
 Db 20 TGACGGAATGGCAACCAAT 1  
 |||||



RESULT 38  
AAL61333/c  
ID AAL61333 standard; DNA; 20 BP.  
XX  
AC AAL61333;  
XX  
XX  
XX 22-SEP-2003 (first entry)  
XX  
XX Human FXR antisense oligonucleotide, ISIS 126479.  
DE  
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
KW RIP14; antisense; ss.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX  
XX Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone; All cytidines are 5-  
methylethylenes"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX  
XX WO2003044167-A2.  
XX  
XX 30-MAY-2003.  
XX  
XX 13-NOV-2002; 2002WO-US036691.  
XX  
XX 15-NOV-2001; 2001US-00002491.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Monia BP, Watt AT;  
XX  
XX WPI; 2003-468767/44.  
XX  
XX New antisense oligonucleotides for modulating human farnesoid X receptor  
FT (FXR) expression, useful for treating conditions associated with FXR in  
PT humans, e.g. cardiovascular disease, atherosclerosis or  
PT hypercholesterolemia.  
XX  
XX Claim 3; Page 73; 127pp; English.  
XX  
XX The invention relates to antisense compounds, compositions and methods  
CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
CC inhibiting the expression of human FXR in cells or tissues. It is  
CC particularly useful for treating or preventing a disease or condition  
CC associated with FXR in a human, e.g. cardiovascular disease,  
CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
CC useful for diagnostics, therapeutics, prophylaxis, or as research  
CC reagents or kits. It is also used in gene therapy. The present sequence  
CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
CC is used to illustrate the method of the invention  
XX  
XX Sequence 20 BP; 3 A; 5 C; 3 G; 9 T; 0 U; 0 Other;  
SQ

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 5.6;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 981 AAAATGTGAGCAGCATGC 1000  
|||||  
Db 20 AAAATGTGAGCAGCATGC 1  
|||||  
RESULT 39  
AAL61334/c  
ID AAL61334 standard; DNA; 20 BP.  
XX  
AC AAL61334;  
XX  
XX 22-SEP-2003 (first entry)  
XX  
XX Human FXR antisense oligonucleotide, ISIS 126483.  
DE  
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
KW RIP14; antisense; ss.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone; All cytidines are 5-  
methylethylenes"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX  
XX WO2003044167-A2.  
XX  
XX 30-MAY-2003.  
XX  
XX 13-NOV-2002; 2002WO-US036691.  
XX  
XX 15-NOV-2001; 2001US-00002491.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Monia BP, Watt AT;  
XX  
XX WPI; 2003-468767/44.  
XX  
XX New antisense oligonucleotides for modulating human farnesoid X receptor  
PT (FXR) expression, useful for treating conditions associated with FXR in  
PT humans, e.g. cardiovascular disease, atherosclerosis or  
PT hypercholesterolemia.  
XX  
XX Claim 3; Page 73; 127pp; English.  
XX  
XX The invention relates to antisense compounds, compositions and methods  
CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
CC inhibiting the expression of human FXR in cells or tissues. It is  
CC particularly useful for treating or preventing a disease or condition  
CC associated with FXR in a human, e.g. cardiovascular disease,  
CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
CC useful for diagnostics, therapeutics, prophylaxis, or as research  
CC reagents or kits. It is also used in gene therapy. The present sequence  
CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
CC is used to illustrate the method of the invention  
XX  
XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;  
SQ

```

Query Match      0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1067 ATGCAGGGAGAAAACCTGAAC 1086
Db 20 ATGCAGGGAGAAAACCTGAAC 1

RESULT 40
AAL61362/c
ID AAL61362 standard; DNA; 20 BP.
AC AAL61362;
XX
XX
DT 22-SEP-2003 (first entry)
DE Human FXR antisense oligonucleotide, ISIS 145309.
XX
KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;
KW RIP14; antisense; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX
PN WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Example 15; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14),
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolaemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research

CC reagents or kits. It is also used in gene therapy. The present sequence
CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence
CC is used to illustrate the method of the invention
XX
SQ Sequence 20 BP; 9 A; 9 C; 1 G; 1 T; 0 U; 0 Other;
Query Match      0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 726 GAGCTGTGTTGTTGTGG 745
Db 20 GAGCTGTGTTGTTGTGG 1

RESULT 41
AAL61363/c
ID AAL61363 standard; DNA; 20 BP.
XX
AC AAL61363;
XX
XX 22-SEP-2003 (first entry)
DE Human FXR antisense oligonucleotide, ISIS 145310.
XX
KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;
KW RIP14; antisense; ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX
PN WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Example 15; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14),
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
```

CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX SQ Sequence 20 BP; 7 A; 8 C; 1 G; 4 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 734 TGTGTTTGTGGACAGAG 753  
 DB 20 TGTGTTTGTGGACAGAG 1

RESULT 42  
 AAL61383/c  
 ID AAL61383 standard; DNA; 20 BP.  
 XX AC AAL61383;  
 XX DT 22-SEP-2003 (first entry)  
 XX DE Human FXR antisense oligonucleotide, ISIS 145330.  
 XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NRIH4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX OS Homo sapiens.  
 OS Synthetic.  
 XX FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX PN WO2003044167-A2.  
 XX PD 30-MAY-2003.  
 XX PF 13-NOV-2002; 2002WO-US036691.  
 XX PR 15-NOV-2001; 2001US-00002491.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX DR New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX Example 15; Page 74; 127pp; English.

XX The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NRIH4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX SQ Sequence 20 BP; 5 A; 3 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 0.9%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 5.6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1525 TGTCTCCAGATAGACAATAC 1544  
 DB 20 TGTCTCCAGATAGACAATAC 1

RESULT 43  
 AAL61390/c  
 ID AAL61390 standard; DNA; 20 BP.  
 XX AC AAL61390;  
 XX DT 22-SEP-2003 (first entry)  
 XX DE Human FXR antisense oligonucleotide, ISIS 145337.  
 XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NRIH4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX OS Homo sapiens.  
 OS Synthetic.  
 XX FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX PN WO2003044167-A2.  
 XX PD 30-MAY-2003.  
 XX PF 13-NOV-2002; 2002WO-US036691.  
 XX PR 15-NOV-2001; 2001US-00002491.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX DR New antisense oligonucleotides for modulating human farnesoid X receptor  
 PT

(FXR) expression, useful for treating conditions associated with FXR in humans, e.g. cardiovascular disease, atherosclerosis or hypercholesterolemia.

Claim 3; Page 74; 127pp; English.

The invention relates to antisense compounds, compositions and methods for modulating the expression of human farnesoid X receptor (FXR). FXR is also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14) and bile acid receptor (BAR). The antisense oligonucleotide is useful for inhibiting the expression of human FXR in cells or tissues. It is particularly useful for treating or preventing a disease or condition associated with FXR in a human, e.g. cardiovascular disease, atherosclerosis or hypercholesterolemia. The antisense compound is useful for diagnostics, therapeutics, prophylaxis, or as research reagents or kits. It is also used in gene therapy. The present sequence is an antisense oligonucleotide targeted to human FXR DNA. This sequence is used to illustrate the method of the invention

Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 5.6;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1692 CACGCTGAGCTGATGTC 1711  
DB 20 CACGCTGAGCTGATGTC 1

RESULT 44  
AAL61329/c  
ID AAL61329 standard; DNA; 20 BP.  
XX AAL61329;  
XX 22-SEP-2003 (first entry)  
XX Human FXR antisense oligonucleotide, ISIS 126465.  
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy; atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR; retinoid X receptor-interacting protein 14; phosphorothioate backbone; RIP14; antisense; ss.  
XX Homo sapiens.  
XX Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX WO2003044167-A2.  
XX 30-MAY-2003.  
XX 13-NOV-2002; 2002WO-US036691.  
XX 15-NOV-2001; 2001US-00002491.  
XX (ISIS-) ISIS PHARM INC.

PI Monia BP, Watt AT;  
XX MPI; 2003-468767/44.  
XX  
XX New antisense oligonucleotides for modulating human farnesoid X receptor (FXR) expression, useful for treating conditions associated with FXR in humans, e.g. cardiovascular disease, atherosclerosis or hypercholesterolemia.  
XX Claim 3; Page 73; 127pp; English.  
XX The invention relates to antisense compounds, compositions and methods for modulating the expression of human farnesoid X receptor (FXR). FXR is also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14) and bile acid receptor (BAR). The antisense oligonucleotide is useful for inhibiting the expression of human FXR in cells or tissues. It is particularly useful for treating or preventing a disease or condition associated with FXR in a human, e.g. cardiovascular disease, atherosclerosis or hypercholesterolemia. The antisense compound is useful for diagnostics, therapeutics, prophylaxis, or as research reagents or kits. It is also used in gene therapy. The present sequence is an antisense oligonucleotide targeted to human FXR DNA. This sequence is used to illustrate the method of the invention

Sequence 20 BP; 5 A; 9 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 5.6;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 717 AAAGGGATGAGCTGTGTGT 736  
DB 20 AAAGGGATGAGCTGTGTGT 1

RESULT 45  
AAL61330/c  
ID AAL61330 standard; DNA; 20 BP.  
XX AAL61330;  
XX 22-SEP-2003 (first entry)  
XX Human FXR antisense oligonucleotide, ISIS 126471.  
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy; atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR; retinoid X receptor-interacting protein 14; phosphorothioate backbone; RIP14; antisense; ss.  
XX Homo sapiens.  
XX Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX WO2003044167-A2.  
XX 30-MAY-2003.  
XX 13-NOV-2002; 2002WO-US036691.

```

XX PR 15-NOV-2001; 2001US-00002491.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Watt AT;
XX XX WPI; 2003-468767/44.
XX DR
XX PT New antisense oligonucleotides for modulating human farnesoid X receptor
XX PT (FXR) expression, useful for treating conditions associated with FXR in
XX PT humans, e.g. cardiovascular disease, atherosclerosis or
XX PT hypercholesterolemia.
XX PS Claim 3; Page 73; 127pp; English.
XX CC The invention relates to antisense compounds, compositions and methods
XX CC for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX CC inhibiting the expression of human FXR in cells or tissues. It is
XX CC particularly useful for treating or preventing a disease or condition
XX CC associated with FXR in a human, e.g. cardiovascular disease,
XX CC atherosclerosis or hypercholesterolemia. The antisense compound is
XX CC useful for diagnostics, therapeutics, prophylaxis, or as research
XX CC reagents or kits. It is also used in gene therapy. The present sequence
XX CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX CC is used to illustrate the method of the invention
XX SQ Sequence 20 BP; 6 A; 7 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 861 GTGATGATGTACATGCG 880
DB 20 GTGATGATGTACATGCG 1
RESULT 46
AAL61356/C
ID AAL61356 standard; DNA; 20 BP.
XX AC AAL61356;
XX XX
XX DT 22-SEP-2003 (first entry)
XX DE Human FXR antisense oligonucleotide, ISIS 145303.
XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX KW atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX KW RIP14; antisense; ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT modified_base 1..20
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate backbone; All cytidines are 5-
XX FT methylcytidines"
XX FT modified_base 1..5
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"
XX FT modified_base 16..20
XX FT /*tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"
XX FT
XX FT

```

```

DN WO2003044167-A2.
XX XX
XX PD 30-MAY-2003.
XX XX
XX PF 13-NOV-2002; 2002WO-US036691.
XX XX
XX PR 15-NOV-2001; 2001US-00002491.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX XX Monia BP, Watt AT;
XX XX WPI; 2003-468767/44.
XX DR
XX PT New antisense oligonucleotides for modulating human farnesoid X receptor
XX PT (FXR) expression, useful for treating conditions associated with FXR in
XX PT humans, e.g. cardiovascular disease, atherosclerosis or
XX PT hypercholesterolemia.
XX PS Claim 3; Page 74; 127pp; English.
XX CC The invention relates to antisense compounds, compositions and methods
XX CC for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX CC inhibiting the expression of human FXR in cells or tissues. It is
XX CC particularly useful for treating or preventing a disease or condition
XX CC associated with FXR in a human, e.g. cardiovascular disease,
XX CC atherosclerosis or hypercholesterolemia. The antisense compound is
XX CC useful for diagnostics, therapeutics, prophylaxis, or as research
XX CC reagents or kits. It is also used in gene therapy. The present sequence
XX CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX CC is used to illustrate the method of the invention
XX SQ Sequence 20 BP; 7 A; 3 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 0.9%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 553 ATTCCAACCTGGTTCTAC 572
DB 20 ATTCCAACCTGGTTCTAC 1
RESULT 47
AAL61377/C
ID AAL61377 standard; DNA; 20 BP.
XX AC AAL61377;
XX XX
XX DT 22-SEP-2003 (first entry)
XX DE Human FXR antisense oligonucleotide, ISIS 145324.
XX KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX KW atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX KW RIP14; antisense; ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT modified_base 1..20
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate backbone; All cytidines are 5-
XX FT methylcytidines"
XX FT modified_base 1..5
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "2'methoxyethyl nucleotides"
XX FT
XX FT

```

```

FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX
XX WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX
XX WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Example 15; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolaemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX
XX Sequence 20 BP; 9 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred.No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1342 TTGGTTCAGCTGAGATTTC 1361
XX 20 TTGGTTCAGCTGAGATTTC 1
XX
XX RESULT 48
XX AAL61380/C
XX ID AAL61380 standard; DNA; 20 BP.
XX
XX AAL61380;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 145327.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone; All cytidines are 5-

```

```

PT methylcytidines"
PT modified_base 1..5
PT /tag= b
PT /mod_base= OTHER
PT /note= "2'methoxyethyl nucleotides"
XX
XX modified_base 16..20
XX /tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX
XX WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX
XX WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Claim 3; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolaemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX
XX Sequence 20 BP; 7 A; 5 C; 2 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred.No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1411 GAATAGTGGTATCTCTGAT 1430
XX 20 GAATAGTGGTATCTCTGAT 1
XX
XX RESULT 49
XX AAL61339/C
XX ID AAL61339 standard; DNA; 20 BP.
XX
XX AAL61339;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 126506.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX RIP14; antisense; ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX OS
XX
XX

```

```

FH Key Location/Qualifiers
FT modified_base 1..20
FT *tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT modified_base 1..5
FT *tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT *tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX WO2003044167-A2.
XX 30-MAY-2003.
XX 13-NOV-2002; 2002WO-US036691.
XX 15-NOV-2001; 2001US-00002491.
XX (ISIS-) ISIS PHARM INC.
XX Monia BP, Watt AT;
XX WPI; 2003-468767/44.
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX Example 15; Page 73; 127pp; English.
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX Sequence 20 BP; 4 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1688 TCACCACGCTGAGATGCTGA 1707
Db 20 TCACCACGCTGAGATGCTGA 1
XX
XX RESULT 50
XX AAL61368/C
XX ID AAL61368 standard; DNA; 20 BP.
XX AC AAL61368;
XX 22-SEP-2003 (first entry)
XX Human FXR antisense oligonucleotide, ISIS 145315.
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
XX atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;
XX retinoid X receptor-interacting protein 14; phosphorothioate backbone;
XX

```

```

KW RIP14; antisense; ss.
XX Homo sapiens.
XX Synthetic.
XX Key Location/Qualifiers
XX modified_base 1..20
XX *tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone; All cytidines are 5-
XX modified_base 1..5
XX *tag= b
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX modified_base 16..20
XX *tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX WO2003044167-A2.
XX 30-MAY-2003.
XX 13-NOV-2002; 2002WO-US036691.
XX 15-NOV-2001; 2001US-00002491.
XX (ISIS-) ISIS PHARM INC.
XX Monia BP, Watt AT;
XX WPI; 2003-468767/44.
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression, useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX Claim 3; Page 74; 127pp; English.
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1033 GTGACTTCGACAGTGACC 1052
Db 20 GTGACTTCGACAGTGACC 1
XX
XX RESULT 51
XX AAL61369/C
XX ID AAL61369 standard; DNA; 20 BP.
XX AC AAL61369;
XX 22-SEP-2003 (first entry)
XX

```

DE Human FXR antisense oligonucleotide, ISIS 145316.  
 XX  
 KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX  
 PN WO2003044167-A2.  
 XX  
 XX 30-MAY-2003.  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 XX Claim 3; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods  
 XX for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 XX inhibiting the expression of human FXR in cells or tissues. It is  
 XX particularly useful for treating or preventing a disease or condition  
 XX associated with FXR in a human, e.g. cardiovascular disease,  
 XX atherosclerosis or hypercholesterolemia. The antisense compound is  
 XX useful for diagnostics, therapeutics, prophylaxis, or as research  
 XX reagents or kits. It is also used in gene therapy. The present sequence  
 XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 XX is used to illustrate the method of the invention  
 XX  
 XX Sequence 20 BP; 3 A; 5 C; 6 G; 6 T; 0 U; 0 Other;  
 XX  
 XX Query Match 0.9%; Score 20; DB 1; Length 20;  
 XX Best Local Similarity 100.0%; Pred. No. 5.6;  
 XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 QY 1039 TGGCAGCAAGTGACCTCGACA 1058  
 DB 20 TGGCAGCAAGTGACCTCGACA 1  
 XX  
 RESULT 52  
 AAL61373/c  
 ID AAL61373 standard; DNA; 20 BP.

XX AAL61373;  
 AC 22-SEP-2003 (first entry)  
 DT  
 XX Human FXR antisense oligonucleotide, ISIS 145320.  
 DE  
 XX  
 KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 KW RIP14; antisense; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone; All cytidines are 5-  
 FT methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'methoxyethyl nucleotides"  
 XX  
 PN WO2003044167-A2.  
 XX  
 XX 30-MAY-2003.  
 XX  
 XX 13-NOV-2002; 2002WO-US036691.  
 XX  
 XX 15-NOV-2001; 2001US-00002491.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Watt AT;  
 XX WPI; 2003-468767/44.  
 XX  
 XX New antisense oligonucleotides for modulating human farnesoid X receptor  
 XX (FXR) expression, useful for treating conditions associated with FXR in  
 XX humans, e.g. cardiovascular disease, atherosclerosis or  
 XX hypercholesterolemia.  
 XX  
 XX Claim 3; Page 74; 127pp; English.  
 XX  
 XX The invention relates to antisense compounds, compositions and methods  
 XX for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 XX inhibiting the expression of human FXR in cells or tissues. It is  
 XX particularly useful for treating or preventing a disease or condition  
 XX associated with FXR in a human, e.g. cardiovascular disease,  
 XX atherosclerosis or hypercholesterolemia. The antisense compound is  
 XX useful for diagnostics, therapeutics, prophylaxis, or as research  
 XX reagents or kits. It is also used in gene therapy. The present sequence  
 XX is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
 XX is used to illustrate the method of the invention  
 XX  
 XX Sequence 20 BP; 3 A; 6 C; 2 G; 9 T; 0 U; 0 Other;  
 XX  
 XX Query Match 0.9%; Score 20; DB 1; Length 20;  
 XX Best Local Similarity 100.0%; Pred. No. 5.6;  
 XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 QY 1178 AGAAGAATTCAGTCGAGAAG 1197  
 DB 20 AGAAGAATTCAGTCGAGAAG 1  
 XX  
 RESULT 52  
 AAL61373/c  
 ID AAL61373 standard; DNA; 20 BP.



```
RESULT 53
AAL61381/c
ID AAL61381 standard; DNA; 20 BP.
XX
XX
AC AAL61381;
XX
XX 22-SEP-2003 (first entry)
XX
XX Human FXR antisense oligonucleotide, ISIS 145328.
XX
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;
KW RIP14; antisense; ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /*tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone; All cytidines are 5-
FT methylcytidines"
XX modified_base 1..5
XX /*tag= b
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
XX /*tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX
XX WO2003044167-A2.
XX
XX 30-MAY-2003.
XX
XX 13-NOV-2002; 2002WO-US036691.
XX
XX 15-NOV-2001; 2001US-00002491.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Watt AT;
XX
XX WPI; 2003-468767/44.
XX
XX New antisense oligonucleotides for modulating human farnesoid X receptor
XX (FXR) expression useful for treating conditions associated with FXR in
XX humans, e.g. cardiovascular disease, atherosclerosis or
XX hypercholesterolemia.
XX
XX Example 15; Page 74; 127pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
XX for modulating the expression of human farnesoid X receptor (FXR). FXR is
XX also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)
XX and bile acid receptor (BAR). The antisense oligonucleotide is useful for
XX inhibiting the expression of human FXR in cells or tissues. It is
XX particularly useful for treating or preventing a disease or condition
XX associated with FXR in a human, e.g. cardiovascular disease,
XX atherosclerosis or hypercholesterolaemia. The antisense compound is
XX useful for diagnostics, therapeutics, prophylaxis, or as research
XX reagents or kits. It is also used in gene therapy. The present sequence
XX is an antisense oligonucleotide targeted to human FXR DNA. This sequence
XX is used to illustrate the method of the invention
XX
XX Sequence 20 BP; 6 A; 2 C; 3 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 5.6;
```

```
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1429 ATGAATATATAACACCTATG 1448
DB 20 ATGAATATATAACACCTATG 1
XX
XX
RESULT 54
ABL40671/c
ID ABL40671 standard; DNA; 24 BP.
XX
XX ABL40671;
XX
XX 17-JUN-2002 (first entry)
XX
XX Human Fe-S protein 9.57 cDNA isolating RT-PCR primer 2.
XX
XX Fe-S protein 9.57; human; cancer; HIV infection; cytostatic; anti-HIV;
KW gene therapy; RT-PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX CN1325892-A.
XX
XX 12-DEC-2001.
XX
XX 31-MAY-2000; 2000CN-00116241.
XX
XX 31-MAY-2000; 2000CN-00116241.
XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX
XX Mao Y, Xie Y;
XX
XX WPI; 2002-227561/29.
XX
XX Polypeptide-human Fe-S protein 9.57 and polynucleotide for coding it.
XX
XX Example 2; Page 16 (Disclosure); 32pp; Chinese.
XX
XX The invention relates to a novel human Fe-S protein 9.57. The protein can
XX be expressed by standard DNA recombination. The Fe-S protein 9.57 and
XX encoding polynucleotides are useful for treating diseases such as cancer
XX and HIV infection. The present sequence represents the human Fe-S protein
XX 9.57 cDNA isolating RT-PCR primer
XX
XX Sequence 24 BP; 6 A; 2 C; 1 G; 15 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 19.4; DB 1; Length 24;
XX Best Local Similarity 95.2%; Pred. No. 8.4;
XX Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1164 AATAAAATTTTAAAGAGAA 1184
DB 21 AATAAAATTTTAAAGAGAA 1
XX
XX
RESULT 55
AAF55665
ID AAF55665 standard; DNA; 23 BP.
XX
XX AAF55665;
XX
XX 29-MAY-2001 (first entry)
XX
XX Probe for human peroxisome proliferator-activated receptor gamma cDNA.
XX
XX Human; peroxisome proliferator-activated receptor gamma; PPAR-gamma;
KW orphan receptor; cancer; probe; ss.
XX
XX Homo sapiens.
XX
XX US6200802-B1.
```



PT Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.

XX Disclosure; SEQ ID NO 13317; 872pp; English.

XX The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and  
 CC immunosuppressive, and cytoskeletal activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 20 BP; 8 A; 2 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 23;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 985 ATGTGAGCAGCAGTGCAGAT 1004  
 Db 1 ATGTGAGCAGCAGTGCAGAT 20

RESULT 58

ACC70407/c

ID ACC70407 standard; DNA; 21 BP.

XX ACC70407;

DT 11-AUG-2003 (first entry)

DE PCR primer used to amplify susceptible-specific AFLP marker SA598.

XX Sequence characterized amplified region; SCAR; AFLP marker SA598;

XX marker-assisted selection; rice; gall midge; gall midge resistance gene;  
 XX PCR; primer; ss.

XX Oryza sp.

XX WO2003033736-A2.

XX 24-APR-2003.

XX 16-OCT-2002; 2002WO-IN000212.

XX 17-OCT-2001; 2001IN-DE001065.

XX (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.

XX Sardesai N, Kumar A, Nair S, Mohan M;

XX WPI; 2003-421324/39.

XX New combination of sequence characterized amplified region primers  
 PT showing polymorphisms between resistant and susceptible plants to gall  
 PT midge, useful in marker-assisted selection of rice varieties.

PS Claim 1; Page 4; 31pp; English.

XX The specification describes a combination of sequence characterized  
 CC amplified region (SCAR) primers for use in marker-assisted selection of  
 CC rice varieties which are susceptible to attack by gall midge. The method  
 CC is useful in marker-assisted selection in rice as they show polymorphisms  
 CC between resistant and susceptible plants to gall midge. PCR primers  
 CC ACC70406-07 were used to amplify the susceptible-specific AFLP marker  
 CC SA598. This marker is present in a single copy number in susceptible  
 CC varieties. SCAR primers developed from this marker are able to  
 CC distinguish between susceptible and resistant phenotypes in different  
 CC crosses carrying different gall midge resistance genes

XX Sequence 21 BP; 5 A; 5 C; 0 G; 11 T; 0 U; 0 Other;

Query Match 0.8%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 24;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1396 TGGAGGAAGAAATTCGAAAT 1415

Db 21 TTGAGGAAGAAATTCGAAAT 2

RESULT 59

AAF89442

ID AAF89442 standard; DNA; 19 BP.

XX AAF89442;

DT 14-AUG-2001 (first entry)

DE Human genetic marker PCR primer SEQ ID NO: 31.

XX Genetic marker; genetic disease diagnosis; cystic fibrosis; haemophilia;  
 KW sickle cell disease; muscular dystrophy; Huntington's disease;  
 KW retinoblastoma; PCR primer; ss.

XX Homo sapiens.

XX WO200134839-A1.

XX 17-MAY-2001.

XX 03-NOV-2000; 2000WO-US030493.

XX 12-NOV-1999; 99US-0165301P.

XX (DUNL/) DUNLOP C L M.

XX (WEIS/) WEISEL J M.

XX Dunlop CLM, Weisel JM;

XX WPI; 2001-329096/34.

XX Detecting multiple genetic markers in one assay, useful to simultaneously  
 PT detect a number of genetic disorders, comprises generating extension  
 PT products and separating them on the basis of melting behavior is.

XX Claim 44; Page 33; 40pp; English.

XX The present invention describes a method of identifying the presence of a  
 CC plurality of genetic markers in a subject, involving generating extension  
 CC products using PCR primers flanking the plurality of markers, separating  
 CC the extension products depending on their melting temperatures, and  
 CC analysing them to determine the presence or absence of each genetic  
 CC marker. This can be used in the diagnosis of genetic diseases, including  
 CC familial hypercholesterolaemia, cystic fibrosis, Tay-Sachs, thalassemia,  
 CC sickle cell disease, phenylketonuria, galactosaemia, fragile X syndrome,  
 CC haemophilia A, myotonic dystrophy, medium chain acyl-CoA dehydrogenase,  
 CC maturity onset diabetes, cystinuria, methylmalonic acidemia, urea cycle  
 CC disorders, hereditary fructose intolerance, hereditary haemochromatosis,  
 CC neonatal thrombocytopenia, Gaucher's disease, tyrosinaemia, Wilson's

CC disease, acaptonuria, hypolactasia, Baker's disease, argininaemia,  
 CC adenomatous polyposis coli, hereditary nonpolyposis colorectal cancer,  
 CC Huntington's disease, adult polycystic kidney disease, alpha-1-  
 CC antitrypsin deficiency, Duchenne muscular dystrophy, Marfan's syndrome,  
 CC neurofibromatosis, osteogenesis imperfecta, retinoblastoma, Friedreich's  
 CC ataxia, haemoglobinopathies, Leber's hereditary optic neuropathy, MCAD  
 CC Canavan's disease, retinitis pigmentosa, Bloom syndrome, Fanconi anaemia  
 CC or Neimann Pick disease. The present sequence is one of the PCR primers  
 CC of the invention  
 XX  
 SQ Sequence 19 BP; 3 A; 0 C; 10 G; 6 T; 0 U; 0 Other;  
 Query Match 0.7%; Score 16.4; DB 1; Length 19;  
 Best Local Similarity 94.4%; Pred. No. 26;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 784 GTGAGGGGTGTAAGGTT 801  
 Db 2 GTGAGGGGTGTAAGGTT 19  
 RESULT 60  
 AAD50206  
 ID AAD50206 standard; DNA; 19 BP.  
 AC AAD50206;  
 DT 24-MAR-2003 (first entry)  
 XX  
 DE Human glucocerebrosidase (GBA)-3 specific PCR primer #2.  
 KW Human; cystic fibrosis; Tay-sachs; familial hypercholesterolaemia; FH;  
 KW fragile X syndrome; haemophilia A; diabetes; cystinuria; tyrosinaemia;  
 KW urea cycle disorder; hereditary fructose intolerance; Baker's disease;  
 KW Wilson's disease; alcaptonuria; adult polycystic kidney disease; MCAD;  
 KW Huntington's disease; myotonic dystrophy; retinitis pigmentosa; cancer;  
 KW Gauchers disease; Canavan's disease; galactosaemia; thrombocytopaenia;  
 KW thalassaemia; sickle cell disease; phenylketonuria; Marfan's syndrome;  
 KW haemoglobinopathy; Bloom syndrome; Neimann Pick's disease; PCR; primer;  
 KW glucocerebrosidase; GBA; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200290374-A1.  
 XX  
 PD 14-NOV-2002.  
 XX  
 PF 06-MAY-2002; 2002WO-US014562.  
 XX  
 PR 08-MAY-2001; 2001US-00851501.  
 XX  
 PA (AMBR-) AMBRY GENETICS CORP.  
 XX  
 PI Dunlop CLM, Weisel JW;  
 XX  
 DR WPI; 2003-103498/09.  
 XX  
 PT Identifying the presence or absence of a mutation or polymorphism in a  
 PT subject, useful for diagnosing genetic diseases, comprises generating  
 PT extension products and analyzing the melting behavior of the mixed DNA  
 PT sample.  
 XX  
 PS Claim 56; Page 43; 49pp; English.  
 XX  
 CC The invention relates to a method for identifying the presence or absence  
 CC of a mutation or polymorphism in a plurality of genes. The method is used  
 CC for identifying the presence or absence of a mutation or polymorphism in  
 CC a subject, or the presence or absence of several genetic markers in a  
 CC subject for diagnosing genetic diseases, e.g. cystic fibrosis, Tay-sachs,  
 CC familial hypercholesterolaemia (FH), thalassaemia, sickle cell disease,  
 CC phenylketonuria, galactosaemia, fragile X syndrome, haemophilia A, onset  
 CC myotonic dystrophy, medium-chain acyl CoA dehydrogenase, maturity onset  
 CC diabetes, cystinuria, methylmalonic acidemia, urea cycle disorders,  
 CC

CC hereditary fructose intolerance, hereditary haemochromatosis, neonatal  
 CC thrombocytopaenia, Gauchers disease, tyrosinaemia, Wilson's disease,  
 CC alcaptonuria, hypolactasia, Baker's disease, argininaemia adenomatous  
 CC polyposis coli (APC), adult polycystic kidney disease, Duchenne muscular  
 CC dystrophy, alpha-1-antitrypsin deficiency, hereditary non-polyposis  
 CC colorectal cancer, Huntington's disease, neurofibromatosis, Marfan's  
 CC syndrome, osteogenesis imperfecta, retinoblastoma, Friedreich's ataxia,  
 CC haemoglobinopathies, MCAD, Canavan's disease, Leber's hereditary optic  
 CC neuropathy, retinitis pigmentosa, Bloom syndrome, Fanconi's anaemia, or  
 CC Neimann Pick's disease. The present sequence is human glucocerebrosidase  
 CC (GBA) specific PCR primer used to illustrate the method of the invention  
 XX  
 SQ Sequence 19 BP; 3 A; 0 C; 10 G; 6 T; 0 U; 0 Other;  
 Query Match 0.7%; Score 16.4; DB 1; Length 19;  
 Best Local Similarity 94.4%; Pred. No. 26;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 784 GTGAGGGGTGTAAGGTT 801  
 Db 2 GTGAGGGGTGTAAGGTT 19  
 RESULT 61  
 ABT44411/C  
 ID ABT44411 standard; DNA; 20 BP.  
 AC ABT44411;  
 XX  
 DT 06-NOV-2003 (first entry)  
 XX  
 DE Chimeric antisense oligonucleotide ISIS 192386 to inhibit human ESRB.  
 KW Oestrogen receptor beta; ESRB; steroid hormone; female sexual maturation;  
 KW bone maintenance; cardiovascular system; ER beta; oestrogen receptor 2;  
 KW ERS2; Alzheimer's; uterine leiomyomata; cytostatic; kidney neoplasm; ss;  
 KW cellular proliferation; cancer; human; antisense; chimeric.  
 OS Chimeric - Homo sapiens.  
 XX  
 PN WO2003050133-A1.  
 XX  
 PD 19-JUN-2003.  
 XX  
 PF 06-DEC-2002; 2002WO-US039200.  
 XX  
 PR 07-DEC-2001; 2001US-00005058.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Dobie KW, Roach MP, Koller E;  
 XX  
 DR WPI; 2003-577284/54.  
 XX  
 PT New antisense oligonucleotides for modulating estrogen receptor beta gene  
 PT expression, particularly useful for treating cancers, specifically  
 PT leiomyoma, pancreatic cancer, prostate cancer, breast cancer, bone cancer  
 PT or lymphoma.  
 XX  
 PS Claim 3; Page 81; 160pp; English.  
 XX  
 CC This invention relates to a novel antisense compounds that modulate the  
 CC expression of estrogen receptor beta (ERB). Oestrogen is a steroid  
 CC hormone that exerts a wide range of effects throughout the human body  
 CC being primarily involved in female sexual maturation. Additionally,  
 CC however, oestrogen targets male reproductive tissues, is known to be  
 CC important in bone maintenance and plays a protective role in the  
 CC cardiovascular system. This hormone receptor, ERSB (also known as ER  
 CC beta, oestrogen receptor 2 and ERS2) has been mapped to chromosome 14q22-  
 CC q24, a region known to be associated with early onset of Alzheimer's  
 CC disease, uterine leiomyomata and neoplasms of the kidney. Furthermore,  
 CC ERSB has been localised to metastatic cells indicating an involvement in  
 CC cellular proliferation. Accordingly, the selective inhibition of ERSB by

CC the cytostatic antisense oligonucleotides of this invention could provide  
 CC a therapeutic target for the treatment of cancer, as well as other ERBB-  
 CC related disorders. This oligonucleotide sequence is the chimeric human  
 CC antisense oligo used to inhibit expression of human ERBB, the aim of the  
 CC invention. Note that it has two terminal five nucleotide 2'-methoxyethyl  
 CC (2'-MOE) wings separated by a ten deoxynucleotide gap. The  
 CC oligonucleotide backbone is phosphorothioate throughout  
 XX  
 SQ Sequence 20 BP; 7 A; 2 C; 2 G; 9 T; 0 U; 0 Other;

Query Match 0.7%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 27;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1171 TTTTAAAGAGCAATTC A 1188  
 |||||  
 Db 19 TTTTAAAGAGCAATTC A 2

RESULT 62  
 ABN09961  
 ID ABN09961 standard; DNA; 17 BP.  
 XX  
 AC ABN09961;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9953.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; ampicin; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.

PF 25-MAY-2001; 2001WO-US016981.  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (AEOM-) AEOMICA INC.  
 XX  
 FI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX  
 DR WPI; 2002-179446/23.  
 XX  
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 9953; 214pp; English.  
 XX

CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterize and quantify

CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pot\_sequence  
 XX

SQ Sequence 17 BP; 6 A; 3 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.7%; Score 15.4; DB 1; Length 17;  
 Best Local Similarity 94.1%; Pred. No. 37;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1072 GGGAGAAAAGTGAATC 1088  
 |||||  
 Db 1 GGGAGAAAAGTGAATC 17

RESULT 63  
 ADC24242/c  
 ID ADC24242 standard; DNA; 18 BP.

XX ADC24242;  
 AC  
 XX  
 DT 18-DEC-2003 (first entry)  
 XX  
 DE Human NOV1b reverse PCR primer SEQ ID NO:49.  
 XX  
 KW human; NOVX; cardiac; antiarteriosclerotic; hypotensive; vasotropic;  
 KW dermatological; anorectic; immunosuppressive; cytostatic;  
 KW anti-infectivity; haemostatic; anti-HIV; antiasthmatic; anti-inflammatory;  
 KW neuroprotective; anabolic; nootropic; antiparkinsonian; gene therapy;  
 KW cardiomyopathy; atherosclerosis; hypertension; congenital heart defect;  
 KW pulmonary stenosis; scleroderma; obesity; metabolic disturbance; obesity;  
 KW transplantation; adrenoleukodystrophy; congenital adrenal hyperplasia;  
 KW prostate cancer; diabetes; graft versus host disease; AIDS;  
 KW fertility; haemophilia; obesity; metabolic disorder; neoplasia; adenocarcinoma;  
 KW bronchial asthma; Crohn's disease; multiple sclerosis;  
 KW infectious disease; anorexia; neurodegenerative disorder;  
 KW Alzheimer's disease; Parkinson's disease; immune disorder;  
 KW haematopoietic disorder; dyslipidaemia; wasting disorder; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO2003076584-A2.  
 XX  
 PD 18-SEP-2003.  
 XX  
 PF 06-MAR-2003; 2003WO-US006951.  
 XX  
 PR 06-MAR-2002; 2002US-0361974P.  
 PR 19-MAR-2002; 2002US-0365477P.  
 PR 22-MAR-2002; 2002US-0366928P.  
 PR 06-AUG-2002; 2002US-0401661P.  
 PR 05-MAR-2003; 2003US-00401661.  
 XX  
 PA (CURA-) CURAGEN CORP.  
 XX  
 PI Alsobrook JP, Burgess CE, Edinger SR, Gerlach VL, Ji W, Kekuda R,  
 PI Li L, Macdougall JR, Miller CE, Millet I, Patturajan M, Pena CEA;

```

PI Rieger DK, Sciore P, Shenoy SG, Smithson G, Spytek KA, Stone DJ;
PI Voss EZ, Zhong M;
XX WPI; 2003-722330/68.
XX
XX New NOVX polypeptides and nucleic acids, useful for diagnosing or
XX treating e.g. cardiomyopathy, atherosclerosis, hypertension, scleroderma,
XX obesity, prostate cancer, AIDS, bronchial asthma, Crohn's disease, or
XX multiple sclerosis.
XX
XX Example C; SEQ ID NO 49; 229pp; English.
XX
XX The present invention describes novel human proteins, designated NOVX
XX proteins. The NOVX sequences have cardiant, antiarteriosclerotic,
XX hypotensive, vasotropic, dermatological, anorectic, immunosuppressive,
XX cytostatic, antiinfertility, haemostatic, anti-HIV, antiasthmatic,
XX antiinflammatory, neuroprotective, anabolic, nootropic and
XX antiparkinsonian activities, and can be used in gene therapy. The NOVX
XX sequences can be used as a therapeutic in the manufacture of a medicament
XX for treating a syndrome associated with a human disease, such as a
XX pathology associated with NOVX. The NOVX proteins and nucleic acids
XX encoding them are useful for diagnosing or treating pathologies, diseases
XX or conditions associated with NOVX sequences, including cardiomyopathy,
XX atherosclerosis, hypertension, congenital heart defects, pulmonary
XX stenosis, scleroderma, obesity, metabolic disturbances associated with
XX obesity, transplantation, adrenoleukodystrophy, congenital adrenal
XX hyperplasia, prostate cancer, diabetes, metabolic disorders, neoplasm,
XX adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS,
XX bronchial asthma, Crohn's disease, multiple sclerosis, infectious
XX disease, anorexia, neurodegenerative disorders (e.g. Alzheimer's disease,
XX or Parkinson's disease), immune disorders, haematopoietic disorders,
XX dyslipidaemias, and wasting disorders associated with chronic diseases.
XX The proteins can also be used as immunogens to produce antibodies and as
XX vaccines. The sequences may further be used in chromosome mapping,
XX identifying individual from minute biological samples (tissue typing),
XX and in forensic identification of a biological sample. The present
XX sequence represents a PCR primer for a human NOVX sequence, which is used
XX in an example from the present invention.
XX
XX Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 15.4; DB 1; Length 18;
XX Best Local Similarity 94.1%; Pred. No. 38;
XX Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1569 AAGCTTCAGGAGCCACT 1585
XX ||||| ||||| |||||
XX 17 AAGCTGCAGGAGCCACT 1
XX
XX RESULT 64
XX AAV66781
XX ID AAV66781 standard; DNA; 18 BP.
XX AC AAV66781;
XX AT AAV66781;
XX DT 02-FEB-1999 (first entry)
XX DE CAPS marker PCR primer 20B4L-1.6 rev.
XX
XX LSD1; plant pathogen response; apoptosis; programmed cell death;
XX disease resistance; herbicide resistance; transgenic plant;
XX crop protection; co-dominant amplified polymorphic sequence; CAPS marker;
XX 20B4L-1.6; PCR; primer; ss.
XX
XX Synthetic.
XX Arabidopsis thaliana.
XX
XX WO9837755-A1.
XX
XX 03-SEP-1998.
XX
XX 27-FEB-1998; 98WO-US0004077.

```

```

XX 28-FEB-1997; 97US-0039063P.
XX (UYNC-) UNIV NORTH CAROLINA.
XX
XX Dangl JL, Dietrich RA, Richberg MH, Epple PM;
XX WPI; 1998-531501/45.
XX
XX New isolated Arabidopsis genes - useful for producing transgenic plants
XX which show resistance to cell death caused by pathogens or herbicides.
XX
XX Example 4; Page 14; 88pp; English.
XX
XX Primers 20B4L-1.6 rev and 20B4L-1.6 for (see AAV66780) are designed for
XX the PCR amplification of the agamous (AG) co-dominant amplified
XX polymorphic sequence (CAPS) marker ch42. New PCR based RFLP (CAPS)
XX markers, including 20B4L-1.6, were derived during cloning of the
XX Arabidopsis thaliana lsd1 gene. Wild-type LSD1 (see AAV72366-67) has an
XX effect in regulating the initial response of plants to pathogens and the
XX subsequent spread of plant cell death engendered by infection. Transgenic
XX plants expressing LSD1 mutant genes that affect resistance to herbicides
XX or plant pathogens that normally result in plant cell death are claimed
XX
XX Sequence 18 BP; 5 A; 1 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 15; DB 1; Length 18;
XX Best Local Similarity 100.0%; Pred. No. 45;
XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 919 AGATGGGAAATGTGG 933
XX ||||| ||||| |||||
XX 4 AGATGGGAAATGTGG 18
XX
XX RESULT 65
XX ABL40671
XX ID ABL40671 standard; DNA; 24 BP.
XX AC ABL40671;
XX AT ABL40671;
XX DT 17-JUN-2002 (first entry)
XX DE Human Fe-S protein 9.57 cDNA isolating RT-PCR primer 2.
XX
XX Fe-S protein 9.57; human; cancer; HIV infection; cytostatic; anti-HIV;
XX gene therapy; RT-PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX CN1325892-A.
XX
XX 12-DEC-2001.
XX
XX 31-MAY-2000; 2000CN-00116241.
XX
XX 31-MAY-2000; 2000CN-00116241.
XX
XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX
XX Mao Y, Xie Y;
XX WPI; 2002-227561/29.
XX
XX Polypeptide-human Fe-S protein 9.57 and polynucleotide for coding it.
XX
XX Example 2; Page 16 (Disclosure); 32pp; Chinese.
XX
XX The invention relates to a novel human Fe-S protein 9.57. The protein can
XX be expressed by standard DNA recombination. The Fe-S protein 9.57 and
XX encoding polynucleotides are useful for treating diseases such as cancer,
XX and HIV infection. The present sequence represents the human Fe-S protein
XX 9.57 cDNA isolating RT-PCR primer

```

RESULT	67
AAS56813	
ID	AAS56813 standard; DNA; 16 BP.
XX	
AC	AAS56813;
XX	
DT	16-JAN-2002 (first entry)
XX	
DE	Target validation ribozyme TV32 DNA.
XX	
KW	Human; BRCA-1 regulator; ribozyme; BR1; RNA target recognition; probe;
XW	cystostatic; RNA cleavage; tumour suppressor; PCR primer; CHLR2; AF6; BR2;
KW	inhibitor dominant negative 4; breast basic conserved protein 1; BBC1;
KW	BR3; ID4; cancer; proliferative disorder; tumour proliferation; ss.
OS	Homo sapiens.
XX	
PX	WO200170982-A2.
NN	
PN	27-SEP-2001.
XX	
PD	
FF	23-MAR-2001; 2001WO-USO09559.
XX	
PR	23-MAR-2000; 2000US-00536058.
XX	
PA	(IMMU-) IMMUSOL INC.
PA	(BEGE/) BEGER C.
XX	
PI	Beger C, Barber J, Wong-Staal F;
XX	
DR	WPI; 2001-611503/70.
XX	
PT	Noel polypeptides that are the regulators of BRCA-1, useful for treating
PT	cancer and diagnosing the presence of neoplastic cells in biological
PT	sample.
XX	
PS	Example 6; Page 65; 97pp; English.
XX	
CC	Sequences AAS56729-AAS56968 represent DNA encoding BRCA-1 regulators,
CC	ribozyme target recognition RNA sequences, DNA fragments encoding the RNA
CC	and primers used in the methods of the invention. Hybridisation of
CC	ribozymes to their targets results in cleavage of the RNA target. The
CC	ribozymes can be used to cleave regulators of the tumour suppressor BRCA-
CC	1, resulting in upregulation or downregulation of BRCA-1 in a cell. The
CC	mRNA targets include those encoding the BRCA-1 regulator BR1, inhibitor
CC	dominant negative 4 (ID4), breast basic conserved protein 1 (BBC1).
CC	CHLR2, AF6, BR2 and BR3. Regulation of BRCA-1 is useful for treating and
CC	diagnosing cancer and other proliferative disorders. The severity of an
CC	incidence of cancer can be lessened by regulating tumour proliferation
CC	through modulation of BRCA-1 expression. The sequences of the invention
CC	are useful in the development of anti-cancer drugs
XX	
SQ	Sequence 16 BP; 8 A; 2 C; 1 G; 5 T; 0 U; 0 Other;
Query Match	0.6%; Score 14.4; DB 1; Length 16;
Best Local Similarity	93.8%; Pred.No. 54;
Matches	15; Conservative 0; Mismatches 1; Indels 0; Gaps 0
QY	1358 TTTCATTAAGAACTT 1373
DB	1 TTACATTAGAAGACTT 16       
RESULT	68
ADD20023	
ID	ADD20023 standard; DNA; 16 BP.
XX	
AC	ADD20023;
XX	
DT	15-JAN-2004 (first entry)
XX	

DE Oreochromis niloticus microsatellite primer SEQ ID NO:658.  
XX single nucleotide polymorphism; SNP; fish; Salmo salar;  
KW Oreochromis niloticus; Atlantic halibut; microsatellite; cod;  
KW polymorphic site; seabass; salmonidae; tilapia; rainbow trout; halibut;  
XX detection; primer; ss.  
OS Synthetic.  
OS Oreochromis niloticus.  
XX WO2003060160-A2.  
XX 24-JUL-2003.  
XX 17-JAN-2003; 2003WO-IB000112.  
XX 18-JAN-2002; 2002US-034950P.  
XX 16-AUG-2002; 2002US-040200P.  
XX (GENO-) GENOMAR ASA.  
XX Lie O, Slettan A, Hoyum M, Lingaas F;  
XX WPI; 2003-627388/59.  
XX Novel isolated nucleic acid molecule comprising single nucleotide  
PT polymorphism associated with fish, useful for forming PCR primers which  
PT are used for detecting single nucleotide polymorphisms in fish nucleic  
PT acids.  
XX Claim 18; SEQ ID NO 658; 233pp; English.  
XX The present invention describes an isolated nucleic acid (I) comprising a  
CC single nucleotide polymorphism (SNP) chosen from: (i) a nucleic acid of  
CC Salmo salar SNPs, Oreochromis niloticus SNPs or Atlantic halibut SNPs;  
CC and (ii) a nucleic acid having nucleotide sequence that hybridises to  
CC (i), or its complement under highly stringent hybridisation conditions.  
CC Also described: (1) an isolated oligonucleotide (II) comprising at least  
CC 17 contiguous nucleotides of a nucleotide sequence of S. salar SNPs, O.  
CC niloticus SNPs, O. niloticus microsatellites, Atlantic halibut SNPs, cod  
CC polymorphic sites and seabass polymorphic sites, or their complement; (2)  
CC a primer pair (III) suitable for use in PCR, comprising two (iii) capable  
CC of amplifying a nucleotide sequence chosen from S. salar SNPs and, O.  
CC niloticus SNPs, O. niloticus microsatellites, Atlantic halibut SNPs, cod  
CC polymorphic sites and seabass polymorphic sites; and determining (Mi) the  
CC origin of fish sample comprising providing a parentage genotype database  
CC comprising a collection of candidate parent genotypes, where each of the  
CC candidate parent genotype represents a distinct origin, and comparing a  
CC sample genotype to the parentage genotype database, where a match between  
CC the sample genotype and one of the candidate parent genotype identifies  
CC to the origin of the sample. (Mi) is useful for determining the origin of  
CC a fish sample such as family salmonidae, S. salar, Tilapia, O. niloticus,  
CC rainbow trout, halibut, seabass and Atlantic cod. (II) is useful for  
CC detecting nucleic acid molecule comprising SNP in a sample, which  
CC involves contacting the sample containing nucleic acids with one or more  
CC (ii) derived from nucleotide sequence of S. salar SNPs and O. niloticus  
CC SNPs, and identifying nucleic acid that hybridises to (ii). (ii) is  
CC useful for detecting nucleic acid molecule comprising a polymorphic  
CC sequence in a sample, comprising contacting the sample containing nucleic  
CC acids with one or more (ii) which is derived from O. niloticus  
CC microsatellite, O. niloticus SNPs, Atlantic halibut SNPs, cod polymorphic  
CC sites or seabass polymorphic sites, and identifying a nucleic acid that  
CC hybridises to (ii). (iii) is useful for detecting nucleic acid molecule  
CC comprising a microsatellite sequence in sample. The present sequence is  
XX used in the exemplification of the present invention.  
XX Sequence 16 BP; 3 A; 3 C; 7 G; 3 T; 0 U; 0 Other;  
Query Match 0.6%; Score 14.4; DB 1; Length 16;  
Best Local Similarity 93.8%; Pred. No. 54;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 849 GGGGCGCACTGTGTGA 864

Db 1 GCGGCGCACTGTGTGA 16  
RESULT 69  
AAQ36874  
ID AAQ36874 standard; DNA; 17 BP.  
XX AC  
XX AAQ36874;  
XX AC  
XX 19-JUL-1993 (first entry)  
XX DNA primer for construction of vector with multicloning site.  
XX Antisense RNA; negative feedback regulation; Escherichia coli; ss.  
XX Synthetic.  
XX JP05041992-A.  
XX 23-FEB-1993.  
XX 24-OCT-1991; 91JP-00277708.  
XX 24-OCT-1990; 90JP-00284408.  
XX (OJIP) OJI CORN STARCH CO LTD.  
XX (OJIP) OJI PAPER CO.  
XX WPI; 1993-103612/13.  
XX E.coli vector with intensified restriction enzyme site - contg. a drug  
PT resistant gene originating from a Gram positive bacterium linked upstream  
PT of the origin of replication of Col E1 plasmid.  
XX Disclosure; Page 27; 47pp; Japanese.  
XX This linker DNA is used in the construction of vectors containing a  
CC unique drug-resistance gene from a Gram-positive bacterium, upstream of  
CC the ColE1 ori. The copy number of the vectors is controlled by  
CC transcription of antisense RNA  
XX Sequence 17 BP; 5 A; 2 C; 5 G; 5 T; 0 U; 0 Other;  
Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1293 GAAGACCGAGTTGCTT 1308  
Db 2 GAAGATCAGATTGCTT 17  
RESULT 70  
AAT81501/c  
ID AAT81501 standard; RNA; 17 BP.  
XX AC  
XX AAT81501;  
XX 14-DEC-1997 (first entry)  
XX Human c-myc hammerhead ribozyme target sequence (nt. position 2701).  
XX Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;  
XX smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;  
XX coronary angioplasty; ss.  
XX Homo sapiens.  
XX WO9531541-A2.  
XX 23-NOV-1995.  
XX



```

PF 18-MAY-1995; 95WO-US006368.
XX
XX 18-MAY-1994; 94US-00245466.
PR 13-JAN-1995; 95US-00373124.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;
XX WPI; 1996-010927/01.
XX
XX New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myb,
PT for treating restenosis or cancer.
XX
XX Claim 1; Page 76; 128pp; English.
XX
XX The present sequence represents the preferred target sequence for an
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
CC the human c-myb sequence at the base position indicated in the descriptor
CC line. The c-myb sequence was screened for optimal ribozyme target sites
CC using a computer folding algorithm, and regions of the mRNA which did not
CC form secondary folding structures and contained potential ribozyme
CC cleavage sites were identified. Ribozymes were synthesised and their
CC activities optimised by either varying the length of the binding arms or
CC by modification to prevent degradation by nucleases. The ribozymes cleave
CC the c-myb sequence and can be used to prevent smooth muscle cell
CC hyperproliferation in restenosis, especially after coronary angioplasty,
CC and in cancers
XX
XX Sequence 17 BP; 10 A; 0 C; 1 G; 0 T; 6 U; 0 Other;
SQ
Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1454 TTTTATAAAAGTATT 1469
DB 17 TTTTATAAAACTATT 2
RESULT 71
AAT81502/c
ID AAT81502 standard; RNA; 17 BP.
XX
XX AAT81502;
XX
XX 14-DEC-1997 (first entry)
XX
XX Human c-myb hammerhead ribozyme target sequence (nt. position 2702).
XX
XX Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
KW smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;
KW coronary angioplasty; ss.
XX
XX Homo sapiens.
XX
XX WO9531541-A2.
XX
XX 23-NOV-1995.
XX
XX 18-MAY-1995; 95WO-US006368.
XX
XX 18-MAY-1994; 94US-00245466.
PR 13-JAN-1995; 95US-00373124.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;
XX WPI; 1996-010927/01.
XX
XX New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myb,
PT for treating restenosis or cancer.
XX
XX Claim 1; Page 76; 128pp; English.
XX
XX The present sequence represents the preferred target sequence for an
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
CC the human c-myb sequence at the base position indicated in the descriptor
CC line. The c-myb sequence was screened for optimal ribozyme target sites
CC using a computer folding algorithm, and regions of the mRNA which did not
CC form secondary folding structures and contained potential ribozyme
CC cleavage sites were identified. Ribozymes were synthesised and their
CC activities optimised by either varying the length of the binding arms or
CC by modification to prevent degradation by nucleases. The ribozymes cleave
CC the c-myb sequence and can be used to prevent smooth muscle cell
CC hyperproliferation in restenosis, especially after coronary angioplasty,
CC and in cancers
XX
XX Sequence 17 BP; 10 A; 0 C; 1 G; 0 T; 6 U; 0 Other;
SQ
Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1454 TTTTATAAAAGTATT 1469
DB 17 TTTTATAAAACTATT 2
RESULT 72
AAX71613
ID AAX71613 standard; RNA; 17 BP.
XX
XX AAX71613;
XX
XX 28-JUL-1999 (first entry)
XX
XX Human KDR VEGF receptor hammerhead ribozyme substrate #625.
XX
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
KW fms-like tyrosine kinase 1; Kinase insert domain containing receptor;
KW foetal liver kinase 1; ss.
XX
XX Homo sapiens.
XX
XX WO9715662-A2.
XX
XX 01-MAY-1997.
XX
XX 25-OCT-1996; 96WO-US017480.
XX
XX 26-OCT-1995; 95US-0005974P.
PR 11-JAN-1996; 96US-00584040.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX (CHIR) CHIRON CORP.
XX
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
XX WPI; 1997-259017/23.
XX
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
PT rheumatoid arthritis, etc., in a human patient.
XX
XX Claim 4; Page 116; 218pp; English.
XX
XX The present invention describes nucleic acid molecules which modulate the
CC synthesis, expression and/or stability of a mRNA encoding 1 or more
CC receptors of vascular endothelial growth factor (VEGF). A patient
CC (preferably human) having a condition associated with the level of the
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour

```

CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention  
 XX  
 SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 75.0%; Pred. No. 56;  
 Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1612 AGATTCACCGCTGA 1627

DB 2 AGAUUCCAGCCUGA 17

RESULT 73

AAA21474

ID AAA21474 standard; RNA; 17 BP.

AC AAA21474;

DT 19-JUN-2000 (first entry)

DE Integrin alpha 6 subunit substrate sequence SEQ ID NO:4700.

XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 KW hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic;  
 KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
 KW age related macular degeneration; cancer; diabetic retinopathy; arthritis;  
 KW myopic degeneration; psoriasis; verruca vulgaris; neovascular glaucoma;  
 KW tuberculous sclerosis; pot-wine stain; Sturge Weber syndrome;  
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.

XX Homo sapiens.

OS

XX WO9950403-A2.

PN 07-OCT-1999.

XX 24-MAR-1999; 99WO-US006507.

XX 27-MAR-1998; 98US-0079678P.

XX (RIBO-) RIBOZYME PHARM INC.

XX Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;

XX WPI; 1999-591315/50.

XX Novel ribozymes for modulating the synthesis, expression and/or stability

XX of an mRNA encoding an angiogenic factors.

XX Claim 55; Page 210; 305pp; English.

XX The present invention describes enzymatic nucleic acid molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl  
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
 CC AAA21596 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences;  
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences;  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or

CC stability of an mRNA encoding angiogenic factor, especially ARNT.  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3

SQ Sequence 17 BP; 5 A; 0 C; 2 G; 0 T; 10 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 37.5%; Pred. No. 56;  
 Matches 6; Conservative

QY 1454 TTTTATAAAGTATT 1469

DB 2 UUUUUUAAAAGUGUU 17

RESULT 74

AAA20929

ID AAA20929 standard; RNA; 17 BP.

AC AAA20929;

DT 19-JUN-2000 (first entry)

DE Integrin alpha 6 subunit substrate sequence SEQ ID NO:4155.

XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 KW hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic;  
 KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
 KW age related macular degeneration; cancer; diabetic retinopathy; arthritis;  
 KW myopic degeneration; psoriasis; verruca vulgaris; neovascular glaucoma;  
 KW tuberculous sclerosis; pot-wine stain; Sturge Weber syndrome; ss.  
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.

XX Homo sapiens.

OS

XX WO9950403-A2.

PN 07-OCT-1999.

XX 24-MAR-1999; 99WO-US006507.

XX 27-MAR-1998; 98US-0079678P.

XX (RIBO-) RIBOZYME PHARM INC.

XX Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;

XX WPI; 1999-591315/50.

XX Novel ribozymes for modulating the synthesis, expression and/or stability

XX of an mRNA encoding an angiogenic factors.

XX Claim 55; Page 176; 305pp; English.

XX The present invention describes enzymatic nucleic acid molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl  
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and

AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequence  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 CC  
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 0 T; 6 U; 0 Other;  
 Query Match 0.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 62.5%; Pred. No. 56;  
 Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
 QY 798 GGTTCCTTCAGAGAA 813  
 Db 2 GGUUUCUUAAGAGAA 17  
 |||:::|||||  
 RESULT 75  
 AAA20930  
 ID AAA20930 standard; RNA; 17 BP.  
 XX  
 AC AAA20930;  
 XX  
 DT 19-JUN-2000 (first entry)  
 DE Integrin alpha 6 subunit substrate sequence SEQ ID NO:4156.  
 XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 XX integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 XX hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
 XX opthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
 XX dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
 XX age related macular degeneration; inflammation; neovascular glaucoma;  
 XX myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
 XX tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;  
 XX Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
 XX Homo sapiens.  
 OS  
 XX WO9950403-A2.  
 PN  
 XX 07-OCT-1999.  
 PD  
 XX 24-MAR-1999; 99WO-US006507.  
 PF  
 XX 27-MAR-1998; 98US-0079678P.  
 PR  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA  
 XX Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
 PI WPI; 1999-591315/50.  
 DR  
 XX Novel ribozymes for modulating the synthesis, expression and/or stability  
 PT of an mRNA encoding an angiogenic factors.  
 PT  
 XX Claim 55; Page 176; 305pp; English.  
 PS  
 XX The present invention describes enzymatic nucleic acid molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl  
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their

corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA23362 to AAA21500 and  
 CC AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequence  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 CC  
 SQ Sequence 17 BP; 6 A; 2 C; 4 G; 0 T; 5 U; 0 Other;  
 Query Match 0.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 62.5%; Pred. No. 56;  
 Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
 QY 798 GGTTCCTTCAGAGAA 813  
 Db 1 GGUUUCUUAAGAGAA 16  
 |||:::|||||  
 RESULT 76  
 ABN09962  
 ID ABN09962 standard; DNA; 17 BP.  
 XX  
 AC ABN09962;  
 XX  
 DT 29-MAY-2002 (first entry)  
 DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9954.  
 XX Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;  
 XX muscle; myosin; chromosome 22; Gene therapy; vaccine; heart disease;  
 XX skeletal muscle disorder; amplicon; screening; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200192524-A2.  
 PN  
 XX 06-DEC-2001.  
 PD  
 XX 25-MAY-2001; 2001WO-US016981.  
 PF  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR  
 XX 21-SEP-2000; 2000US-0234687P.  
 PR  
 XX 27-SEP-2000; 2000US-0236359P.  
 PR  
 XX 04-OCT-2000; 2000GB-00024283.  
 PR  
 XX 30-JAN-2001; 2001WO-US000661.  
 PR  
 XX 30-JAN-2001; 2001WO-US000662.  
 PR  
 XX 30-JAN-2001; 2001WO-US000663.  
 PR  
 XX 30-JAN-2001; 2001WO-US000664.  
 PR  
 XX 30-JAN-2001; 2001WO-US000665.  
 PR  
 XX 30-JAN-2001; 2001WO-US000666.  
 PR  
 XX 30-JAN-2001; 2001WO-US000667.  
 PR  
 XX 30-JAN-2001; 2001WO-US000668.  
 PR  
 XX 30-JAN-2001; 2001WO-US000669.  
 PR  
 XX 05-FEB-2001; 2001US-0266860P.  
 PR  
 XX (AEOM-) AEOMICA INC.  
 PA  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 PI  
 XX

DR WPI; 2002-179446/23.  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 9954; 214pp; English.  
 XX  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 XX Sequence 17 BP; 6 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 XX  
 Query Match 0.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 56;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1073 GGAGAAACTGAACTC 1088  
 Db 1 GGAGAAACTGAGCTC 16  
 RESULT 77  
 ABNO9960  
 ID ABNO9960 standard; DNA; 17 BP.  
 XX  
 AC ABNO9960;  
 XX  
 XX 29-MAY-2002 (first entry)  
 XX  
 XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9952.  
 XX  
 XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 XX skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200192524-A2.  
 XX  
 XX 06-DEC-2001.  
 XX  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX  
 XX 26-MAY-2000; 2000US-0207456P.  
 XX  
 XX 21-SEP-2000; 2000US-0234687P.  
 XX  
 XX 27-SEP-2000; 2000US-0236359P.  
 XX  
 XX 04-OCT-2000; 2000GB-00024263.  
 XX  
 XX 30-JAN-2001; 2001WO-US000661.  
 XX  
 XX 30-JAN-2001; 2001WO-US000662.  
 XX  
 XX 30-JAN-2001; 2001WO-US000663.  
 XX  
 XX 30-JAN-2001; 2001WO-US000664.  
 XX  
 XX 30-JAN-2001; 2001WO-US000665.

30-JAN-2001; 2001WO-US000666.  
 30-JAN-2001; 2001WO-US000667.  
 30-JAN-2001; 2001WO-US000668.  
 30-JAN-2001; 2001WO-US000669.  
 30-JAN-2001; 2001WO-US000670.  
 03-FEB-2001; 2001US-026860P.  
 XX  
 XX (ABOM-) AEOMICA INC.  
 XX  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX  
 XX WPI; 2002-179446/23.  
 XX  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 9952; 214pp; English.  
 XX  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 XX Sequence 17 BP; 6 A; 2 C; 7 G; 2 T; 0 U; 0 Other;  
 XX  
 Query Match 0.6%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 56;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1072 GGAGAAACTGAACTC 1087  
 Db 2 GGAGAAACTGAGCTC 17  
 RESULT 78  
 ABQ63861  
 ID ABQ63861 standard; DNA; 17 BP.  
 XX  
 AC ABQ63861;  
 XX  
 XX 20-AUG-2002 (first entry)  
 XX  
 XX Human KTOM1a portion (ABQ63232) probe # 574.  
 XX  
 XX Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.  
 OS Homo sapiens.  
 XX  
 XX WO200224750-A2.  
 XX  
 XX 28-MAR-2002.  
 XX  
 XX

```

PF 21-SEP-2001; 2001WO-US029656.
XX
XX 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 23-MAY-2001; 2001US-00864761.
PR 28-AUG-2001; 2001US-0315676P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Zhang J;
XX
XX WPI; 2002-479509/51.
XX
XX New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic
XX acids encoding the protein, useful for treating subjects having defects
XX in KTOM1 which can manifest as cancer of the kidney, or as a disorder of
XX e.g., liver or bone.
XX
XX Example 2; Page 232; 418pp; English.
XX
XX The invention relates to a novel isolated nucleic acid encoding human
XX KTOM1 (kidney tumor overexpressed membrane) protein. The protein of the
XX invention has cytostatic activity. The nucleotide may have a use in gene
XX therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
XX monitor a disease caused by altered expression of human KTOM1.
XX Compositions comprising the nucleic acids, proteins or antibodies may be
XX used to treat subjects having defects in KTOM1 which can manifest as
XX cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
XX heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
XX function. The sequence represents a probe used in the invention to scan
XX the nt 1-1001 portion of human KTOM1a (ABQ63232)
XX
XX Sequence 17 BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 767 CTATATGCACTGACC 782
Db |||||
2 CTACATGCACTGACC 17

RESULT 79
ABQ63862
ID ABQ63862 standard; DNA; 17 BP.
XX
AC ABQ63862;
XX
XX 20-AUG-2002 (first entry)
XX
XX Human KTOM1a portion (ABQ63232) probe # 575.
XX
XX Human; KTOM1a; KTOM1; kidney tumor overexpressed membrane; cytostatic;
XX Gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
XX kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
XX
XX Homo sapiens.
XX
XX WO200224750-A2.
XX
XX 28-MAR-2002.
XX

```

```

XX 21-SEP-2001; 2001WO-US029656.
XX
XX 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 23-MAY-2001; 2001US-00864761.
PR 28-AUG-2001; 2001US-0315676P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Zhang J;
XX
XX WPI; 2002-479509/51.
XX
XX New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic
XX acids encoding the protein, useful for treating subjects having defects
XX in KTOM1 which can manifest as cancer of the kidney, or as a disorder of
XX e.g., liver or bone.
XX
XX Example 2; Page 233; 418pp; English.
XX
XX The invention relates to a novel isolated nucleic acid encoding human
XX KTOM1 (kidney tumor overexpressed membrane) protein. The protein of the
XX invention has cytostatic activity. The nucleotide may have a use in gene
XX therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
XX monitor a disease caused by altered expression of human KTOM1.
XX Compositions comprising the nucleic acids, proteins or antibodies may be
XX used to treat subjects having defects in KTOM1 which can manifest as
XX cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
XX heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
XX function. The sequence represents a probe used in the invention to scan
XX the nt 1-1001 portion of human KTOM1a (ABQ63232)
XX
XX Sequence 17 BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 767 CTATATGCACTGACC 782
Db |||||
1 CTACATGCACTGACC 16

RESULT 80
ACC52120/c
ID ACC52120 standard; DNA; 17 BP.
XX
AC ACC52120;
XX
XX 27-JUN-2003 (first entry)
XX
XX Human tumour suppressor sequence #887.
XX
XX ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
XX tumour regression; apoptosis; virus resistance; diagnosis;
XX cellular degeneration.
XX
XX Homo sapiens.
XX
XX PR2826373-A1.
XX

```

PD 27-DEC-2002.

XX 20-JUN-2001; 2001FR-00008139.

XX 20-JUN-2001; 2001FR-00008139.

XX (MOLE-) MOLECULAR ENGINES LAB SA.

XX Tuijnder M, Telerman A, Amson R;

XX WPI; 2003-250498/25.

XX New nucleic acid sequences associated with tumor suppression, regression, apoptosis or virus resistance are useful to diagnose and treat viral disease, development of tumor cells and cell degeneration.

XX Claim 1; Page 245; 798pp; French.

XX This sequence represents an isolated nucleic acid sequence associated with tumor suppression or regression, apoptosis or virus resistance. The invention relates to these sequences or sequences having at least 80% identity to them, and polypeptides encoded by the sequences or polypeptides having 80% identity to the polypeptide sequences. The invention is used to diagnose or treat viral disease or disease characterized by development of tumour cells or cellular degeneration

XX Sequence 17 BP; 3 A; 3 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 17;

Best Local Similarity 93.8%; Pred. No. 56;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1220 AATGGCAACCAATCAT 1235

DB 17 AATGGCAACCAATCAT 2

RESULT 81

ABT36349/c

ID ABT36349 standard; DNA; 17 BP.

XX AC ABT36349;

XX 12-JUN-2003 (first entry)

XX Tumour suppression related human fukutin oligo SEQ ID No 1986.

XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

XX Homo sapiens.

XX WO2003025175-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004208.

XX 17-SEP-2001; 2001FR-00011978.

XX (MOLE-) MOLECULAR ENGINES LAB.

XX Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-313353/30.

XX New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

XX Disclosure; Page 265; 720pp; French.

XX The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention

XX Sequence 17 BP; 4 A; 6 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 17;

Best Local Similarity 93.8%; Pred. No. 56;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 CTGAGGTAGCAGAGAT 670

DB 17 CTGAGGTAGCAGAGAT 2

RESULT 82

ABT39375/c

ID ABT39375 standard; DNA; 17 BP.

XX AC ABT39375;

XX 12-JUN-2003 (first entry)

XX Tumour suppression related human fukutin oligo SEQ ID No 5012.

XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

XX Homo sapiens.

XX WO2003025175-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004208.

XX 17-SEP-2001; 2001FR-00011978.

XX (MOLE-) MOLECULAR ENGINES LAB.

XX Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-313353/30.

XX New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

XX Disclosure; Page 619; 720pp; French.

XX The invention relates to a novel isolated 17 mer nucleic acid sequence,

CC given in the specification, a sequence containing at least 15 consecutive  
CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
CC alignment, at least 80 % identity to the 17 mer sequence, or a sequence that  
CC hybridizes to them under highly stringent conditions, or the complement  
CC of any of them, or the corresponding RNA. The novel isolated nucleic  
CC acids of the invention are useful as probes and primers for detecting,  
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
CC component of a gene chip, in vitro as (anti)sense reagents, and for  
CC production of recombinant polypeptides. Any of the nucleic acids,  
CC polypeptides, vectors containing the nucleic acids, cells containing the  
CC vector or antibodies directed against the polypeptides are useful for  
CC preparation of pharmaceuticals for prevention and/or treatment of viral  
CC diseases that are characterized by development of tumours or cell  
CC degeneration, specifically cancer but also Alzheimer's disease and  
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
CC patient samples is useful for diagnosis and/or prognosis of these  
CC diseases. The polypeptides can also be used to generate antibodies, and  
CC both the polypeptide and antibodies are useful as components of protein  
CC chips. The nucleic acid sequences of the invention can be used in gene  
CC therapy. This polynucleotide sequence represents a tumour suppression  
CC related human fukutin oligonucleotide of the invention  
XX  
SQ Sequence 17 BP; 3 A; 1 C; 5 G; 8 T; 0 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 815 CATTACCAAAACGCT 830  
Db 17 CATTACCAAAACGAT 2  
|||||||

RESULT 83  
ACC64384  
ID ACC64384 standard; DNA; 17 BP.  
AC ACC64384;  
XX  
XX  
DT 01-JUL-2003 (first entry)  
XX  
DE Murine oligonucleotide associated with tumour suppression, SEQ ID 1631.  
XX  
XX Cytostatic; virucide; neuroprotective; nontropic; neuroleptic; murine;  
KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW schizophrenia; ss.  
XX  
OS Mus musculus.  
XX  
XX WO2003025176-A2.  
XX  
PD 27-MAR-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004210.  
XX  
PR 17-SEP-2001; 2001FR-00011979.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
DR WPI; 2003-333167/31.  
XX  
XX New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumours and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX  
XX Disclosure; Page 221; 738pp; French.  
XX  
XX The present invention relates to murine oligonucleotides (ACC62754-  
CC ACC68806), which are associated with tumour suppression, tumour  
CC reversion, apoptosis and virus resistance. The oligonucleotides are

CC useful as (1) as probes and primers for detecting, identifying,  
CC quantifying and/or amplifying nucleic acid, e.g. as one component of a  
CC gene chip; in vitro as (anti)sense reagents; and (2) for production of  
CC recombinant polypeptides. The oligonucleotides are useful for preparation  
CC of pharmaceuticals for prevention and/or treatment of viral diseases that  
CC are characterised by development of tumours or cell degeneration,  
CC specifically cancer but also Alzheimer's disease and schizophrenia  
XX  
SQ Sequence 17 BP; 1 A; 1 C; 5 G; 10 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 726 GAGCTGTGTGTGTTT 741  
Db 1 GATCTGTGTGTGTTT 16  
|||||||

RESULT 84  
ADB44143/c  
ID ADB44143 standard; DNA; 17 BP.  
XX  
AC ADB44143;  
XX  
XX  
DT 18-DEC-2003 (revised)  
DT 04-DEC-2003 (first entry)  
XX  
DE Tumour suppression/reversion associated nucleotide #4466.  
XX  
XX cytostatic; antiviral; neuroprotective; nontropic; neuroleptic; ss;  
KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;  
KW diagnosis.  
XX  
OS Homo sapiens.  
XX  
XX WO2003040369-A2.  
XX  
PD 15-MAY-2003.  
XX  
XX 17-SEP-2002; 2002WO-IB004219.  
XX  
PR 17-SEP-2001; 2001FR-00011981.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
XX WPI; 2003-441574/41.  
XX  
XX New nucleic acid encoding human prostate membrane-specific antigen,  
PT useful e.g. for treatment of tumours and viral infection, also related  
PT polypeptide and antibodies.  
XX  
XX Disclosure; Page 554; 771pp; French.  
XX  
XX The invention relates to the isolation of 6327 nucleotide sequences,  
CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
CC sequence having at least 80% identity, after optimal alignment, with the  
CC nucleotides, a sequence that hybridizes under stringent conditions with  
CC the nucleotides, or the complement, or corresponding RNA, of the  
CC nucleotides. The nucleotides are used as probes or primers for detecting,  
CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
CC sense and antisense sequences, of nucleotides involved in tumour  
CC suppression or reversion, apoptosis and or viral resistance, to produce  
CC recombinant polypeptides, and to prepare transgenic animals, as  
CC experimental models. The nucleotides (also vectors containing them and  
CC cells containing the vectors), the encoded polypeptides and antibodies  
CC (Ab) against the polypeptide are useful for prevention and/or treatment  
CC of viral infections or diseases characterized by development of tumours  
CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
CC Analysis of the expression of the nucleotides can be used for diagnosis

CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
CC also be used to screen for their specific interactive molecules,  
CC potentially useful for treating diseases associated with abnormal  
CC expression of the nucleotides.  
XX  
SQ Sequence 17 BP; 7 A; 4 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1342 TTCTTCAGCTGAGAT 1357  
DB 17 TTGTTCAGCTGAGAT 2

RESULT 85  
ABX77487/C  
ID ABX77487 standard; DNA; 18 BP.

AC ABX77487;  
XX  
XX 09-APR-2003 (first entry)

XX Human lrbA gene 3' splice donor site for Exon 49.

XX LPS responsive CHS1/beige-like anchor gene; lrbA; cancer;  
KW tumour growth inhibitor; cytostatic; gene therapy; tumour; melanoma;  
KW chronic myelogenous leukaemia; adenocarcinoma; lymphoblastic leukaemia;  
KW lung carcinoma; ds; human; mouse.

XX Homo sapiens.  
XX  
XX WO200278614-A2.  
XX  
XX 10-OCT-2002.

XX 02-APR-2002; 2002WO-US010350.

XX 02-APR-2001; 2001US-0280107P.

XX (UYSP-) UNIV SOUTH FLORIDA.

XX Kerr WG, Wang J;

XX WPI; 2003-103233/09.

XX A new isolated LPS-responsive and Beige-like Anchor polypeptide useful  
XX for inhibiting growth of tumors in a patient.

XX Example 5; Page 45; 79pp; English.

XX This invention relates to a novel isolated LPS-responsive and Beige-like  
XX Anchor (Irba) polypeptide which may be used to inhibit tumour growth. The  
XX invention also comprises an interfering RNA sequence which may be used to  
XX suppress lrbA function and inhibit tumour growth. The polypeptide and  
XX small interfering RNA (siRNA) molecules of the invention may have  
XX cytosstatic activity and may be used in gene therapy. Also disclosed is a  
XX method for inhibiting tumour growth in a patient comprising administering  
XX to the patient an agent that suppresses lrbA function in the patient. The  
XX agent may be a polynucleotide fragment of an lrbA gene or its variant, or  
XX a polypeptide fragment of an lrbA gene or its variant or an RNA sequence  
XX that interferes with the expression of the lrbA gene. The method of the  
XX invention may be used to treat a patient who is suffering from a tumour  
XX or a cancer, such as breast, prostate, melanoma, cervical or colorectal  
XX cancer, chronic myelogenous leukemia, adenocarcinoma, lymphoblastic  
XX leukemia or lung carcinoma. The present sequence represents a DNA  
XX sequence used within the scope of the invention

SQ Sequence 18 BP; 3 A; 4 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.6%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 58;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1615 TTCCAGAGCTGAAA 1630  
DB 18 TTCAACAGAGCTGAAA 3

RESULT 86  
ABT37667

ID ABT37667 standard; DNA; 17 BP.

AC ABT37667;

XX 12-JUN-2003 (first entry)

XX Tumour suppression related human fukutin oligo SEQ ID No 3304.

XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW schizophrenia; protein chip; gene therapy; tumour suppression;  
KW human fukutin; ds.

XX Homo sapiens.

XX WO2003025175-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004208.

XX 17-SEP-2001; 2001FR-00011978.

XX (MOLE-) MOLECULAR ENGINES LAB.

XX Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-313353/30.

XX New isolated nucleic acid, useful for treating viral diseases associated  
XX with tumors and cell degeneration, also related polypeptides, antibodies  
XX and transfected cells.

XX Disclosure; Page 420; 720pp; French.

XX The invention relates to a novel isolated 17 mer nucleic acid sequence,  
XX given in the specification, a sequence containing at least 15 consecutive  
XX nucleotides from the 17 mer sequence, a sequence with, after optimal  
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
XX hybridizes to them under highly stringent conditions, or the complement  
XX of any of them, or the corresponding RNA. The novel isolated nucleic  
XX acids of the invention are useful as probes and primers for detecting,  
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
XX component of a gene chip, in vitro as (anti)sense reagents, and for  
XX production of recombinant polypeptides. Any of the nucleic acids,  
XX polypeptides, vectors containing the nucleic acids, cells containing the  
XX vector or antibodies directed against the polypeptides are useful for  
XX preparation of pharmaceuticals for prevention and/or treatment of viral  
XX diseases that are characterised by development of tumours or cell  
XX degeneration, specifically cancer but also Alzheimer's disease and  
XX schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
XX patient samples is useful for diagnosis and/or prognosis of these  
XX diseases. The polypeptides can also be used to generate antibodies, and  
XX both the polypeptide and antibodies are useful as components of protein  
XX chips. The nucleic acid sequences of the invention can be used in gene  
XX therapy. This polynucleotide sequence represents a tumour suppression  
XX related human fukutin oligonucleotide of the invention

SQ Sequence 17 BP; 8 A; 1 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.6%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 66;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;





XX 18-MAY-1994; 94US-00245466.  
PR 13-JAN-1995; 95US-00373124.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;  
XX WPI; 1996-010927/01.  
XX New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myc,  
PT for treating restenosis or cancer.  
XX Claim 1; Page 76; 128pp; English.  
XX The present sequence represents the preferred target sequence for an  
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves  
CC the human c-myc sequence at the base position indicated in the descriptor  
CC line. The c-myc sequence was screened for optimal ribozyme target sites  
CC using a computer folding algorithm, and regions of the mRNA which did not  
CC form secondary folding structures and contained potential ribozyme  
CC cleavage sites were identified. Ribozymes were synthesised and their  
CC activities optimised by either varying the length of the binding arms or  
CC by modification to prevent degradation by nucleases. The ribozymes cleave  
CC the c-myc sequence and can be used to prevent smooth muscle cell  
CC hyperproliferation in restenosis, especially after coronary angioplasty,  
CC and in cancers  
XX Sequence 17 BP; 9 A; 0 C; 1 G; 0 T; 7 U; 0 Other;  
SQ Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OY 1452 AGTTTATATAAAAGTAT 1468  
DB 17 ATTTTTATAAACTAT 1  
RESULT 90  
AA69956/C  
ID AAX69956 standard; RNA; 17 BP.  
XX AAX69956;  
AC AAX69956;  
XX 28-JUL-1999 (first entry)  
DE Human flt1 VEGF receptor hammerhead ribozyme substrate #1251.  
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; flt-1; flk-1;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.  
XX Homo sapiens.  
OS Homo sapiens.  
XX WO9715662-A2.  
PN WO9715662-A2.  
XX 01-MAY-1997.  
PD 25-OCT-1996; 96WO-US017480.  
XX 26-OCT-1995; 95US-0005974P.  
PR 11-JAN-1996; 96US-00584040.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (CHIR ) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 80; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KOR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
CC of nucleic acid molecules from the present invention  
XX Sequence 17 BP; 8 A; 4 C; 0 G; 0 T; 5 U; 0 Other;  
SQ Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OY 1450 TTAGTTTTTATAAAAGT 1466  
DB 17 TTGTTTGTATAAAAGT 1

PT Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 84; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KOR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
CC of nucleic acid molecules from the present invention  
XX Sequence 17 BP; 8 A; 4 C; 0 G; 0 T; 5 U; 0 Other;  
SQ Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OY 1450 TTAGTTTTTATAAAAGT 1466  
DB 17 TTGTTTGTATAAAAGT 1  
RESULT 91  
AAX69815  
ID AAX69815 standard; RNA; 17 BP.  
XX AAX69815;  
AC AAX69815;  
XX 28-JUL-1999 (first entry)  
DE Human flt1 VEGF receptor hammerhead ribozyme substrate #1110.  
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; flt-1; flk-1;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.  
XX Homo sapiens.  
OS Homo sapiens.  
XX WO9715662-A2.  
PN WO9715662-A2.  
XX 01-MAY-1997.  
PD 25-OCT-1996; 96WO-US017480.  
XX 26-OCT-1995; 95US-0005974P.  
PR 11-JAN-1996; 96US-00584040.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (CHIR ) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 80; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing

CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention  
 XX  
 SQ Sequence 17 BP; 10 A; 3 C; 0 G; 0 T; 4 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 64.7%; Pred. No. 72;  
 Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
 QY 1159 TACAAATATAAATTTA 1175  
 Db 1 UACAAUAAACCUUA 17  
 RESULT 92  
 ID AAX69488 standard; RNA; 17 BP.  
 XX  
 AC AAX69488;  
 DT 28-JUL-1999 (first entry)  
 DE Human flt1 VEGF receptor hammerhead ribozyme substrate #783.  
 XX  
 KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9715662-A2.  
 XX  
 PD 01-MAY-1997.  
 XX  
 PF 25-OCT-1996; 96WO-US017480.  
 XX  
 PR 26-OCT-1995; 95US-0005974P.  
 PR 11-JAN-1996; 96US-00584040.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (CHIR) CHIRON CORP.  
 XX  
 PI Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
 XX WPT; 1997-259017/23.  
 DR Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.  
 XX  
 PS Claim 4; Page 70; 218pp; English.  
 XX  
 CC The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient  
 CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention  
 XX  
 SQ Sequence 17 BP; 3 A; 6 C; 1 G; 0 T; 7 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 52.9%; Pred. No. 72;  
 Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1101 CAGACTCTCTACATT 1117  
 Db 1 CUGACCCUUCACAUU 17  
 RESULT 93  
 ID AAV97512 standard; RNA; 17 BP.  
 XX  
 AC AAV97512;  
 DT 17-MAR-1999 (first entry)  
 DE Human EGF-R target sequence nucleotide position 2562.  
 XX  
 KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;  
 KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;  
 KW cancer; genetic drift; detection; mutation; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9833893-A2.  
 XX  
 PD 06-AUG-1998.  
 XX  
 PF 14-JAN-1998; 98WO-US000730.  
 XX  
 PR 31-JAN-1997; 97US-0036476P.  
 PR 04-DEC-1997; 97US-00985162.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (UYAS-) UNIV ASTON.  
 XX  
 PI Akhtar S, Fell P, Mcswiggen JA;  
 XX WPI; 1998-437449/37.  
 DR Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
 PT growth factor receptor, useful for inhibiting cell proliferation and for  
 PT treating cancers.  
 XX  
 PS Claim 5; Page 74; 109pp; English.  
 XX  
 CC The present invention describes enzymatic nucleic acid molecules (NAMS)  
 CC which specifically cleave RNA derived from an epidermal growth factor  
 CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
 CC represent specifically claimed target sequence from human EGF-R. AAV98044  
 CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and  
 CC hairpin ribozymes respectively for human EGF-R. The NAMS are useful for  
 CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR  
 CC expression levels e.g. to inhibit cell proliferation in the prevention or  
 CC treatment of cancers. The NAMS can also be used as diagnostic tools to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of EGF-R RNA in a cell  
 XX  
 SQ Sequence 17 BP; 3 A; 7 C; 3 G; 0 T; 4 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 718 AAGGGCATGAGCTGCT 734  
 Db 17 AAGGGCATGAGCTGCT 1  
 RESULT 94  
 ID AAA20415/C  
 XX AAA20415 standard; RNA; 17 BP.  
 XX  
 AC AAA20415;  
 XX AAA20415;

DT 19-JUN-2000 (first entry)  
 XX Integrin alpha 6 subunit substrate sequence SEQ ID NO:3641.  
 DE  
 XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
 KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
 KW dermatologic; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
 KW age related macular degeneration; inflammation; neovascular glaucoma;  
 KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
 KW tuberos scleriosis; pot-wine stain; Sturge Weber syndrome;  
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
 XX Homo sapiens.  
 XX WO9950403-A2.  
 XX PD 07-OCT-1999.  
 XX PF 24-MAR-1999; 99WO-US006507.  
 XX PR 27-MAR-1998; 98US-0079678P.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
 XX WPI; 1999-591315/50.  
 XX Novel ribozymes for modulating the synthesis, expression and/or stability  
 XX of an mRNA encoding an angiogenic factors.  
 XX Claim 55; Page 144; 305pp; English.  
 XX The present invention describes enzymatic cleave RNA molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl  
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC the invention of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberos scleriosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 XX Sequence 17 BP; 3 A; 3 C; 4 G; 0 T; 7 U; 0 Other;  
 XX Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 XX Best Local Similarity 88.2%; Pred. No. 72;  
 XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1147 TGCTCAGGAATAACA 1163  
 DB 17 TGACTCAGGACATAACA 1  
 RESULT 95

AAA21302/c  
 ID AAA21302 standard; RNA; 17 BP.  
 XX AC AAA21302;  
 XX DT 19-JUN-2000 (first entry)  
 XX DE Integrin alpha 6 subunit substrate sequence SEQ ID NO:4528.  
 XX KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
 KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
 KW dermatologic; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
 KW age related macular degeneration; inflammation; neovascular glaucoma;  
 KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
 KW tuberos scleriosis; pot-wine stain; Sturge Weber syndrome;  
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
 XX Homo sapiens.  
 XX WO9950403-A2.  
 XX PD 07-OCT-1999.  
 XX PF 24-MAR-1999; 99WO-US006507.  
 XX PR 27-MAR-1998; 98US-0079678P.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
 XX WPI; 1999-591315/50.  
 XX Novel ribozymes for modulating the synthesis, expression and/or stability  
 XX of an mRNA encoding an angiogenic factors.  
 XX Claim 55; Page 199; 305pp; English.  
 XX The present invention describes enzymatic cleave RNA molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl  
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
 CC AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC the invention of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, and AAA22476 to AAA23262, AAA23343 to  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberos scleriosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 XX Sequence 17 BP; 8 A; 3 C; 2 G; 0 T; 4 U; 0 Other;  
 XX Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 XX Best Local Similarity 88.2%; Pred. No. 72;  
 XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1423 TCTCTGATGATATATA 1439

Db 17 TCCTGTTGAATGATA 1  
RESULT 96  
AAV91254/c  
ID AAV91254 standard; RNA; 17 BP.  
XX AC AAV91254;  
XX DT 18-FEB-1999 (first entry)  
XX DE Human C-raf target site nucleotide position 2095.  
XX KW Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;  
XX KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;  
XX KW screening; identification; synthesis; deprotection; purification; cancer;  
XX KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;  
XX KW restenosis; rheumatoid arthritis; ss.  
XX OS Homo sapiens.  
XX PN WO9850530-A2.  
XX PD 12-NOV-1998.  
XX PF 05-MAY-1998; 98WO-US009249.  
XX PR 09-MAY-1997; 97US-0046059P.  
XX PR 09-JUN-1997; 97US-0049002P.  
XX PR 03-JUL-1997; 97US-0051718P.  
XX PR 22-AUG-1997; 97US-0056808P.  
XX PR 02-OCT-1997; 97US-0061321P.  
XX PR 02-OCT-1997; 97US-0061324P.  
XX PR 05-NOV-1997; 97US-0064866P.  
XX PR 19-DEC-1997; 97US-0068212P.  
XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PI Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;  
XX PI Parry T, Beigelman L, Meswiggen JA, Karpeisky A, Burgin A;  
XX PI Thompson J, Workman CT, Beaudry A, Sweedler D;  
XX WPI; 1999-009494/01.  
XX PT Identifying new catalytic nucleic acid that modulates selected processes  
XX PT - especially ribozymes that cleave Raf RNA for treating cancer.  
XX PT restenosis, and also new ribozymes and modified nucleoside triphosphates  
XX PT used as antiviral agents and synthons.  
XX PS Claim 177; Page 151; 259pp; English.  
XX CC A method has been developed for the identification of a nucleic acid  
XX CC capable of modulating a process in a biological system. The method  
XX CC comprises: (a) introducing into the system a random library of nucleic  
XX CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising  
XX CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC  
XX CC in systems where modulation has occurred and/or determining the sequence  
XX CC of at least part of the SBDs in such systems. Nucleic acid molecules with  
XX CC endonuclease activity and catalytic activity, from the present invention,  
XX CC are used to modulate gene expression in plant and mammalian cells and to  
XX CC cleave target nucleic acid, particularly for treating systemic diseases  
XX CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic  
XX CC ascites and infection. They may also be used to detect genetic drift and  
XX CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs  
XX CC with RNA-cleaving activity that modulate expression of the Raf gene, are  
XX CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or  
XX CC generally any condition associated with the level of c-raf. Introduction  
XX CC of sugar/phosphate modifications increases stability against nuclease and  
XX CC activity. AAV90922 to AAV93877 represent NACs that can be used in the  
XX CC method, specifically for modulating the expression of a Raf gene  
XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 578 GCAGCCTGAGAGTGGT 594  
DB 17 GCAGCCTGAGAGCAGGT 1  
RESULT 97  
AA80154/c  
ID AA80154 standard; DNA; 17 BP.  
XX AC AA80154;  
XX DT 20-NOV-2000 (first entry)  
XX DE Hepatitis B virus related oligonucleotide probe #417.  
XX KW Hepatitis B virus; HBV; Hepatitis A virus; HAV; probe; detection;  
XX KW mutation; high-density gene chip; ss.  
XX OS Hepatitis B virus.  
XX PN CN1252452-A.  
XX PD 10-MAY-2000.  
XX PF 24-SEP-1999; 99CN-00114460.  
XX PR 24-SEP-1999; 99CN-00114460.  
XX PA (UYDO-) UNIV DONGNAN.  
XX PI Sun X, Lu Z, Wang Y;  
XX DR WPI; 2000-443233/39.  
XX PT High-density gene chip making process.  
XX PS Example 1; Fig 15; 19pp; Chinese.  
XX CC The present invention describes a method which comprises making a high-  
XX CC density gene chip, specifically for making high-density micro-array of  
XX CC oligonucleotide probes. An oligonucleotide probe selecting process to  
XX CC seek preferentially length variable and coverage variable probes is  
XX CC provided to ensure identical cross melting temperature of probes to the  
XX CC maximum limit, and this can make the cross control of gene chip  
XX CC relatively simple and raise the reliability of the gene chip detecting  
XX CC results. The process proposes a specific probe selection method for  
XX CC detecting target sequence directly, detecting mutation in both specific  
XX CC and non-specific sites and a probe overall arrangement scheme. AAA79738  
XX CC to AAA80201 represent oligonucleotide probe sequences which are used in  
XX CC examples from the present invention  
XX SQ Sequence 17 BP; 5 A; 5 C; 6 G; 1 T; 0 U; 0 Other;  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1640 CTTTGCTGCTCTCCCTGG 1656  
DB 17 CTTTGCTGCTCTCCCTGG 1  
RESULT 98  
AAF05300  
ID AAF05300 standard; DNA; 17 BP.  
XX AC AAF05300;  
XX XX

DT 16-FEB-2001 (first entry)  
 XX Hammerhead ribozyme substrate #2519.  
 DE  
 XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
 KW interferon alpha; ss.  
 XX  
 KW Homo sapiens.  
 OS  
 XX WO200061729-A2.  
 PN  
 XX 19-OCT-2000.  
 PD  
 XX 11-APR-2000; 2000WO-US009721.  
 PF  
 XX 12-APR-1999; 99US-0129390P.  
 PR  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA  
 XX Blatt L, Zwick M, Pavco P, Mcswiggen J;  
 PI  
 XX WPI; 2000-647423/62.  
 DR  
 XX Enzymatic and antisense nucleic acid inhibition of repressor genes,  
 PT useful for producing e.g. granulocyte colony stimulating factor protein,  
 PT interferon alpha and erythropoietin.  
 PT  
 XX Claim 18; Page 113; 164pp; English.  
 PS  
 XX The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the CAAAT Displacement Protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha  
 XX  
 SQ Sequence 17 BP; 7 A; 2 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 795 AAAGCTTCTTCAGAG 811  
 ||| ||||| |||  
 Db 1 AAAAGCTTCTTCAGAG 17  
 ||| ||||| |||  
 RESULT 99  
 AAH95461/c  
 ID AAH95461 standard; RNA; 17 BP.  
 XX  
 AC AAH95461;  
 XX  
 XX 09-OCT-2001 (first entry)  
 DT  
 XX Human Chk1 ribozyme substrate SEQ ID NO: 886.  
 DE  
 XX Human; checkpoint kinase-1; Chk1; antisense; ribozyme; gene therapy;  
 KW RNA cleavage; cancer; ss.  
 KW  
 XX Homo sapiens.  
 OS  
 XX WO200157206-A2.  
 PN  
 XX 09-AUG-2001.  
 PD  
 XX 02-FEB-2001; 2001WO-US003504.  
 PF  
 XX 03-FEB-2000; 2000US-0179983P.  
 PR  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA

PA (PATT/) PATTAEY A R.  
 XX  
 XX Fattaey AR, Jarvis T, Mcswiggen J, Bocher RN, Holman PS;  
 XX WPI; 2001-496922/54.  
 DR  
 XX Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid  
 PT molecules, which downregulates expression of a checkpoint kinase-1 gene,  
 PT useful for treating colorectal, lung, breast or prostate cancers.  
 PT  
 XX Claim 4; Page 72; 115pp; English.  
 PS  
 XX The present invention provides nucleic acid molecules capable of  
 CC downregulating the expression of the human checkpoint kinase-1 (Chk1)  
 CC gene. These may be antisense or ribozyme sequences and are useful in the  
 CC treatment of diseases associated with conditions affected by Chk1 levels,  
 CC including cancer. The present sequence is an oligonucleotide described in  
 CC the exemplification of the invention  
 XX  
 SQ Sequence 17 BP; 6 A; 2 C; 4 G; 0 T; 5 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 800 TTCTTCAGAGAGCA 816  
 ||||| |||||  
 Db 17 TTCTTCAGAGAGCA 1  
 ||||| |||||  
 RESULT 100  
 ABK02291  
 ID ABK02291 standard; RNA; 17 BP.  
 XX  
 AC ABK02291;  
 XX  
 XX 12-MAR-2002 (first entry)  
 DT  
 XX Human NOGO DNzyme #203.  
 DE  
 XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNzyme; inozyme; G-cleaver; amberzyme; zincyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX WO200159103-A2.  
 PN  
 XX 16-AUG-2001.  
 PD  
 XX 09-FEB-2001; 2001WO-US004273.  
 PF  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR  
 XX 28-FEB-2000; 2000US-0185516P.  
 PR  
 XX 06-MAR-2000; 2000US-0187128P.  
 PR  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX

DR WPI; 2001-607195/69.  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 PS Claim 88; Page 115; 200pp; English.  
 XX  
 CC The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberyne (cleaving RNA with an NGN triplet), a zynzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NGO-  
 CC targeting nucleic acid is used to cleave RNA of the NGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NGO expression. The present  
 CC sequence is a DNzyme molecule of the invention  
 XX  
 SQ Sequence 17 BP; 7 A; 3 C; 5 G; 0 T; 2 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 76.5%; Pred. No. 72;  
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
 QY 606 ATATATGAACTCAGGCG 622  
 DB 1 AUAAGGACUCAGGCG 17  
 RESULT 101  
 ABK02491/C  
 ID ABK02491 standard; RNA; 17 BP.  
 XX  
 AC ABK02491;  
 DT  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NGO Amberyne #163.  
 XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NGO; hammerhead ribozyme;  
 KW DNzyme; inozyme; G-cleaver; amberyne; zynzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;

KW  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 FA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX  
 XX WPI; 2001-607195/69.  
 DR  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 PT  
 XX Claim 88; Page 134; 200pp; English.  
 XX  
 CC The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberyne (cleaving RNA with an NGN triplet), a zynzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NGO-  
 CC targeting nucleic acid is used to cleave RNA of the NGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NGO expression. The present  
 CC sequence is a DNzyme molecule of the invention  
 XX  
 SQ Sequence 17 BP; 5 A; 2 C; 7 G; 0 T; 3 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 567 TTCTACCCCGAGGCC 583  
 DB 17 TTTTACCTCCAGGCC 1

Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.





CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMPLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
SQ Sequence 17 BP; 6 A; 4 C; 3 G; 3 T; 0 U; 0 Other;  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1074 GAGAAACTGACTCACC 1090  
DB 1 GAGAAACTGAGCTCTC 17  
RESULT 105  
ABN02266/C  
ID ABN02266 standard; DNA; 17 BP.  
XX  
AC ABN02266;  
XX  
XX 29-MAY-2002 (first entry)  
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:2258.  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;  
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX skeletal muscle disorder; amplicon; screening; ss.  
OS Homo sapiens.  
XX WO200192524-A2.  
XX  
XX 06-DEC-2001.  
XX  
XX 25-MAY-2001; 2001WO-US016981.  
XX 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.  
XX 27-SEP-2000; 2000US-0236359P.  
XX 04-OCT-2000; 2000GB-00024263.  
XX 30-JAN-2001; 2001WO-US000661.  
XX 30-JAN-2001; 2001WO-US000662.  
XX 30-JAN-2001; 2001WO-US000663.  
XX 30-JAN-2001; 2001WO-US000664.  
XX 30-JAN-2001; 2001WO-US000665.  
XX 30-JAN-2001; 2001WO-US000666.  
XX 30-JAN-2001; 2001WO-US000667.  
XX 30-JAN-2001; 2001WO-US000668.  
XX 30-JAN-2001; 2001WO-US000669.  
XX 30-JAN-2001; 2001WO-US000670.  
XX 05-FEB-2001; 2001US-0266860P.  
XX (AEOM-) AEOMICA INC.  
XX  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 2258; 214pp; English.  
XX  
XX The present invention describes a human genome-derived myosin-like

SQ Sequence 17 BP; 6 A; 5 C; 3 G; 3 T; 0 U; 0 Other;  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1075 AGAAACTGACTCACC 1091  
DB 1 AGAAACTGAGCTCTCC 17  
RESULT 104  
ABN09963  
ID ABN09963 standard; DNA; 17 BP.  
XX  
AC ABN09963;  
XX  
XX 29-MAY-2002 (first entry)  
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9955.  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;  
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX skeletal muscle disorder; amplicon; screening; ss.  
OS Homo sapiens.  
XX WO200192524-A2.  
XX  
XX 06-DEC-2001.  
XX  
XX 25-MAY-2001; 2001WO-US016981.  
XX 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.  
XX 27-SEP-2000; 2000US-0236359P.  
XX 04-OCT-2000; 2000GB-00024263.  
XX 30-JAN-2001; 2001WO-US000661.  
XX 30-JAN-2001; 2001WO-US000662.  
XX 30-JAN-2001; 2001WO-US000663.  
XX 30-JAN-2001; 2001WO-US000664.  
XX 30-JAN-2001; 2001WO-US000665.  
XX 30-JAN-2001; 2001WO-US000666.  
XX 30-JAN-2001; 2001WO-US000667.  
XX 30-JAN-2001; 2001WO-US000668.  
XX 30-JAN-2001; 2001WO-US000669.  
XX 30-JAN-2001; 2001WO-US000670.  
XX 05-FEB-2001; 2001US-0266860P.  
XX (AEOM-) AEOMICA INC.  
XX  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 9955; 214pp; English.  
XX  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterise and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP-  
XX -1 proteins, as standards in assays used to determine the concentration  
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX capture probes for surface-enhanced laser desorption ionisation, as

protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption/ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pot\_sequence

Sequence 17 BP; 2 A; 9 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1017 GAAGACAGTGAAGGTGG 1033

Db 17 GAGGACAGTGAAGGTGG 1

RESULT 106

ABK18302

ID ABK18302 standard; RNA; 17 BP.

XX AC ABK18302;

XX DT 09-APR-2002 (first entry)

XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 949.

XX KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;  
XX KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
XX KW vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
XX KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
XX KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
XX KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
XX KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
XX KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;

XX OS Homo sapiens.

XX PN WO200188124-A2.

XX PD 22-NOV-2001.

XX PF 16-MAY-2001; 2001WO-US015866.

XX PR 16-MAY-2000; 2000US-00572021.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX) GLAXO GROUP LTD.

XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin P, Randi AM;

XX DR WPI; 2002-082995/11.

XX PT Novel polynucleotide which down regulates expression of Ets-related gene,  
XX PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
XX PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.

XX Claim 4; Page 76; 149pp; English.

XX The invention relates to a nucleic acid molecule (I) which down regulates  
XX expression of an Ets-related gene (ERG). (I) is useful for treating  
XX conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
XX tumour angiogenesis, diabetic retinopathy, macular degeneration,  
XX neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
XX vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge  
XX Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
XX syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
XX treating a patient having a condition associated with the level of ERG,  
XX by contacting cells of the patient with (I) under conditions suitable for  
XX the treatment. The method comprises the use of one or more therapies  
XX under conditions suitable for the treatment. Leukaemia or tumour  
XX angiogenesis is treated by administering (I) to the patient in  
XX conjunction with one or more of other therapies such as radiation or  
XX chemotherapy treatment. (I) is useful for reducing ERG activity in a  
XX cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
XX ERG gene, by contacting (I) with RNA, in the presence of a divalent  
XX cation such as Mg<sup>2+</sup>. (I) is useful for diagnosis of conditions and  
XX diseases related to the expression of ERG, and as diagnostic tool to  
XX examine genetic drift and mutations within diseased cells or to detect  
XX the presence of ERG RNA in a cell. (I) is useful for specifically  
XX targeting genes that share homology with ERG gene or ERG fusion genes.  
XX ABK17354-ABK22719 represent nucleic acids, including antisense and  
XX enzymatic nucleic acid molecules which regulate expression of ERG, and  
XX related PCR primers of the invention

SQ Sequence 17 BP; 7 A; 3 C; 5 G; 0 T; 2 U; 0 Other;

Query Match 0.6%; Score 13.8; DB 1; Length 17;

Best Local Similarity 76.5%; Pred. No. 72;

Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1479 AAATGACTCAAGAGGA 1495

Db 1 AAAGGCCCAAGAGGA 17

RESULT 107

ABK17696

ID ABK17696 standard; RNA; 17 BP.

XX AC ABK17696;

XX DT 09-APR-2002 (first entry)

XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 343.

XX KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;  
XX KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
XX KW vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
XX KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
XX KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
XX KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
XX KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
XX KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;

XX OS Homo sapiens.

XX PN WO200188124-A2.

XX PD 22-NOV-2001.

XX PF 16-MAY-2001; 2001WO-US015866.

XX PR 16-MAY-2000; 2000US-00572021.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX) GLAXO GROUP LTD.

PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX WPI; 2002-082995/11.  
 XX Novel polynucleotide which down regulates expression of Ets-related gene,  
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
 PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.  
 XX Claim 4; Page 65; 149pp; English.  
 XX The invention relates to a nucleic acid molecule (I) which down regulates  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberosus sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg2+. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 XX Sequence 17 BP; 9 A; 2 C; 3 G; 0 T; 3 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 70.6%; Pred. No. 72;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 QY 1248 GTAGATTTCACAAAAA 1264  
 DB 1 GUAGAUUCAGAACAA 17  
 RESULT 108  
 ABK17827/c  
 ID ABK17827 standard; RNA; 17 BP.  
 XX  
 AC ABK17827;  
 XX  
 DT 09-APR-2002 (first entry)  
 XX Human ERG hammerhead ribozyme target sequence, Seq ID No 474.  
 DE  
 KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;  
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 KW vulnary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 KW angiofibroma of tuberosus sclerosis; port-wine stain; wound healing;  
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 KW Osler-Weber-rendu syndrome, leukaemia; osteoporosis; DNAzyme; inozyme;  
 KW amberzyme.  
 XX Homo sapiens.  
 OS  
 XX WO200188124-A2.  
 XX  
 XX 22-NOV-2001.  
 PD  
 XX

PF 16-MAY-2001; 2001WO-US015866.  
 XX  
 PR 16-MAY-2000; 2000US-00572021.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (GLAX) GLAXO GROUP LTD.  
 XX  
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX WPI; 2002-082995/11.  
 XX Novel polynucleotide which down regulates expression of Ets-related gene,  
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
 PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.  
 XX Claim 4; Page 67; 149pp; English.  
 XX The invention relates to a nucleic acid molecule (I) which down regulates  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberosus sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg2+. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 XX Sequence 17 BP; 8 A; 1 C; 3 G; 0 T; 5 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1357 TTTTCAATAAGAAACTT 1373  
 DB 17 TTTTCATTAGCAACTT 1  
 RESULT 109  
 ABT38914/c  
 ID ABT38914 standard; DNA; 17 BP.  
 XX  
 AC ABT38914;  
 XX  
 DT 12-JUN-2003 (first entry)  
 XX Tumour suppression related human fukutin oligo SEQ ID No 4551.  
 DE  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; protein chip; gene therapy; tumour suppression;  
 KW human fukutin; ds.  
 XX Homo sapiens.  
 OS  
 XX WO2003025175-A2.  
 XX

PD 27-MAR-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004208.  
 XX  
 PR 17-SEP-2001; 2001FR-00011978.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amson R, Tuijnder M;  
 XX  
 DR WPI; 2003-313353/30.  
 XX  
 PT New isolated nucleic acid, useful for treating viral diseases associated  
 XX with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; Page 566; 720pp; French.  
 XX  
 CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
 CC given in the specification, a sequence containing at least 15 consecutive  
 CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
 CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
 CC hybridizes to them under highly stringent conditions, or the complement  
 CC of any of them, or the corresponding RNA. The novel isolated nucleic  
 CC acids of the invention are useful as probes and primers for detecting,  
 CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
 CC component of a gene chip, in vitro as (anti)sense reagents, and for  
 CC production of recombinant polypeptides. Any of the nucleic acids,  
 CC polypeptides, vectors containing the nucleic acids, cells containing the  
 CC vector or antibodies directed against the polypeptides are useful for  
 CC preparation of pharmaceuticals for prevention and/or treatment of viral  
 CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC therapy. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention  
 XX  
 SQ Sequence 17 BP; 3 A; 2 C; 7 G; 5 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1082 TGAACCTCACCACGATC 1098  
 DB 17 TGCATCACCACGATC 1  
 RESULT 110  
 ABT39538  
 ID ABT39538 standard; DNA; 17 BP.  
 XX  
 AC ABT39538;  
 XX  
 DT 12-JUN-2003 (first entry)  
 XX  
 DE Tumour suppression related human fukutin oligo SEQ ID No 5175.  
 XX  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; protein chip; gene therapy; tumour suppression;  
 KW human fukutin; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003025175-A2.  
 XX  
 PD 27-MAR-2003.  
 XX

PF 17-SEP-2002; 2002WO-IB004208.  
 XX  
 PR 17-SEP-2001; 2001FR-00011978.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amson R, Tuijnder M;  
 XX  
 DR WPI; 2003-313353/30.  
 XX  
 PT New isolated nucleic acid, useful for treating viral diseases associated  
 XX with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; Page 639; 720pp; French.  
 XX  
 CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
 CC given in the specification, a sequence containing at least 15 consecutive  
 CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
 CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
 CC hybridizes to them under highly stringent conditions, or the complement  
 CC of any of them, or the corresponding RNA. The novel isolated nucleic  
 CC acids of the invention are useful as probes and primers for detecting,  
 CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
 CC component of a gene chip, in vitro as (anti)sense reagents, and for  
 CC production of recombinant polypeptides. Any of the nucleic acids,  
 CC polypeptides, vectors containing the nucleic acids, cells containing the  
 CC vector or antibodies directed against the polypeptides are useful for  
 CC preparation of pharmaceuticals for prevention and/or treatment of viral  
 CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC therapy. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention  
 XX  
 SQ Sequence 17 BP; 6 A; 2 C; 7 G; 2 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 713 GATCAAGGGGATGAGC 729  
 DB 1 GATCAAGGGGATGAGC 17  
 RESULT 111  
 ABT38532  
 ID ABT38532 standard; DNA; 17 BP.  
 XX  
 AC ABT38532;  
 XX  
 DT 12-JUN-2003 (first entry)  
 XX  
 DE Tumour suppression related human fukutin oligo SEQ ID No 4169.  
 XX  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; protein chip; gene therapy; tumour suppression;  
 KW human fukutin; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003025175-A2.  
 XX  
 PD 27-MAR-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004208.  
 XX

PR 17-SEP-2001; 2001FR-00011978.  
XX (MOLE-) MOLECULAR ENGINES LAB.  
XX Telerman A, Amson R, Tuijnder M;  
XX WPI; 2003-313353/30.  
XX New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX Disclosure; Page 521; 720pp; French.  
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,  
XX given in the specification, a sequence containing at least 15 consecutive  
CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
CC hybridizes to them under highly stringent conditions, or the complement  
CC of any of them, or the corresponding RNA. The novel isolated nucleic  
CC acids of the invention are useful as probes and primers for detecting,  
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
CC component of a gene chip, in vitro as (anti)sense reagents, and for  
CC production of recombinant polypeptides. Any of the nucleic acids,  
CC polypeptides, vectors containing the nucleic acids, cells containing the  
CC vector or antibodies directed against the polypeptides are useful for  
CC preparation of pharmaceuticals for prevention and/or treatment of viral  
CC diseases that are characterised by development of tumours or cell  
CC degeneration, specifically cancer but also Alzheimer's disease and  
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
CC patient samples is useful for diagnosis and/or prognosis of these  
CC diseases. The polypeptides can also be used to generate antibodies, and  
CC both the polypeptide and antibodies are useful as components of protein  
CC chips. The nucleic acid sequences of the invention can be used in gene  
CC therapy. This polynucleotide sequence represents a tumour suppression  
CC related human fukutin oligonucleotide of the invention  
XX Sequence 17 BP; 6 A; 5 C; 3 G; 3 T; 0 U; 0 Other;  
SQ Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 668 GATGCTGTGTAAACAGA 684  
DB 1 GATCCCTGTAAACAGA 17  
RESULT 112  
ABT34842  
ID ABT34842 standard; DNA; 17 BP.  
XX AC ABT34842;  
XX DT 12-JUN-2003 (first entry)  
XX Tumour suppression related human fukutin oligo SEQ ID No 479.  
XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW human fukutin; ds.  
XX Homo sapiens.  
XX WO2003025175-A2.  
XX 27-MAR-2003.  
XX 17-SEP-2002; 2002WO-IB004208.  
XX 17-SEP-2001; 2001FR-00011978.  
XX

PA (MOLE-) MOLECULAR ENGINES LAB.  
XX Telerman A, Amson R, Tuijnder M;  
XX WPI; 2003-313353/30.  
XX New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX Disclosure; Page 90; 720pp; French.  
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,  
XX given in the specification, a sequence containing at least 15 consecutive  
CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
CC hybridizes to them under highly stringent conditions, or the complement  
CC of any of them, or the corresponding RNA. The novel isolated nucleic  
CC acids of the invention are useful as probes and primers for detecting,  
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
CC component of a gene chip, in vitro as (anti)sense reagents, and for  
CC production of recombinant polypeptides. Any of the nucleic acids,  
CC polypeptides, vectors containing the nucleic acids, cells containing the  
CC vector or antibodies directed against the polypeptides are useful for  
CC preparation of pharmaceuticals for prevention and/or treatment of viral  
CC diseases that are characterised by development of tumours or cell  
CC degeneration, specifically cancer but also Alzheimer's disease and  
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
CC patient samples is useful for diagnosis and/or prognosis of these  
CC diseases. The polypeptides can also be used to generate antibodies, and  
CC both the polypeptide and antibodies are useful as components of protein  
CC chips. The nucleic acid sequences of the invention can be used in gene  
CC therapy. This polynucleotide sequence represents a tumour suppression  
CC related human fukutin oligonucleotide of the invention  
XX Sequence 17 BP; 6 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
SQ Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 713 GATCAAGGGGATGAGC 729  
DB 1 GATCAAGGGTGTGACC 17  
RESULT 113  
ACA09096  
ID ACA09096 standard; RNA; 17 BP.  
XX AC ACA09096;  
XX DT 03-JUN-2003 (first entry)  
XX NFkB sub-unit modulating amberzyme substrate #259.  
XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;  
KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
KW chemotherapeutic; paclitaxel; docetaxel; cisplatin; methotrexate;  
KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
XX Homo sapiens.  
XX US2002177568-A1.  
XX

```

XX PD 28-NOV-2002.
XX PF 23-MAY-2001; 2001US-00864785.
XX PR 07-DEC-1992; 92US-00987132.
XX PR 18-MAY-1994; 94US-00245466.
XX PR 15-AUG-1994; 94US-00291932.
XX PR 23-DEC-1996; 96US-00777916.
XX PA (STIN/) STINCHCOMB D T.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (DRAP/) DRAPER K G.
XX PI Stinchcomb DT, Mcswiggen J, Draper KG;
XX XX WPI; 2003-340953/32.
XX DR
XX PT Novel enzymatic nucleic acid molecules which down regulates expression of
XX PT a sequence encoding a subunit of nuclear factor kappa B useful for
XX PT treating cancer, inflammatory disorders and autoimmune diseases.
XX PS
XX PS Claim 3; Page 56; 72pp; English.
XX CC The invention describes an enzymatic nucleic acid molecule (I) which down
XX CC regulates expression of a sequence encoding a subunit of nuclear factor
XX CC kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme
XX CC configuration. The enzymatic nucleic acid molecule is adapted to treat
XX CC cancer and is useful for down-regulating REL-A activity in a cell, for
XX CC treating a patient having a condition associated with the level of REL-A.
XX CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
XX CC the presence of a divalent cation, especially Mg2+. The enzymatic and
XX CC antisense nucleic acid molecules are useful for treating breast, lung,
XX CC prostate, colorectal, brain, esophageal, stomach, bladder, pancreatic,
XX CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
XX CC multidrug resistant cancer. The method involves use of other drug
XX CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or
XX CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
XX CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,
XX CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic
XX CC acid molecules are also useful for treating inflammatory disease such as
XX CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
XX CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
XX CC rejection, gene therapy applications, ischaemia/reperfusion injury
XX CC (central nervous system (CNS) and myocardial), glomerulonephritis,
XX CC sepsis, allergic airway inflammation, inflammatory bowel disease or
XX CC infection. This sequence represents the substrate of a novel enzymatic
XX CC nucleic acid molecule
XX SQ Sequence 17 BP; 7 A; 3 C; 3 G; 0 T; 4 U; 0 Other;
XX
XX Query Match 0.6%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 64.7%; Pred. No. 72;
XX Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 803 CTTCCAGGAGAGCAATT 819
XX ||: || || || || || || || ||
XX Db 1 CUUAAAGCAGAGCAUUA 17
XX
XX RESULT 114
XX ABZ20919
XX ID ABZ20919 standard; DNA; 17 BP.
XX AC
XX AC ABZ20919;
XX XX
XX XX 26-MAR-2003 (first entry)
XX DT
XX DE M14-MMP catalytic domain antibody related oligonucleotide #4.
XX KW M14-MMP; catalytic domain; antibody; inflammation; cancer; PCR;
XX KW membrane type-matrix metalloproteinase; antiinflammatory; anti-rheumatoid;
XX KW antiarthritic; rheumatoid arthritis; cytostatic; primer; ss.

```

```

XX OS Unidentified.
XX PN WO2002101046-A1.
XX PD 19-DEC-2002.
XX PF 11-JUN-2002; 2002WO-JP005788.
XX PR 11-JUN-2001; 2001JP-00176256.
XX PA (KYOW ) KYOWA HAKKO KOGYO KK.
XX PI Miki I, Ohta S, Shitara K, Furuya A;
XX DR WPI; 2003-148808/14.
XX PT Monoclonal antibody specifically binding to natural or solubilized M14-
XX PT MMP, applicable in diagnosis and remedies for M14-MMP participated
XX PT diseases e.g. inflammations and cancer particularly rheumatoid arthritis.
XX PS Disclosure; Page 50; 63pp; Japanese.
XX CC The present invention relates to a monoclonal antibody which binds
XX CC specifically to the M14-MMP (membrane type-matrix metalloproteinase)
XX CC catalytic domain. The antibody is applicable in diagnosis and remedies
XX CC for M14-MMP participated diseases e.g. inflammations and cancer
XX CC particularly rheumatoid arthritis. The present sequence is an
XX CC oligonucleotide shown in the exemplification of the invention
XX SQ Sequence 17 BP; 3 A; 2 C; 6 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 0.6%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 88.2%; Pred. No. 72;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 859 CTGTGATGGATATGTAC 875
XX || || || || || || || || ||
XX Db 1 GTGTGATGGATATGTGC 17
XX
XX RESULT 115
XX ACC65419/C
XX ID ACC65419 standard; DNA; 17 BP.
XX AC
XX AC ACC65419;
XX XX
XX DT 01-JUL-2003 (first entry)
XX DE
XX DE Murine oligonucleotide associated with tumour suppression, SEQ ID 2666.
XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;
XX KW tumour suppression; tumour reversion; apoptosis; virus resistance;
XX KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
XX KW schizophrenia; ss.
XX OS Mus musculus.
XX PN WO2003025176-A2.
XX PD 27-MAR-2003.
XX PF 17-SEP-2002; 2002WO-IB004210.
XX PR 17-SEP-2001; 2001FR-00011979.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX PI Telerman A, Amson R, Tuijnder M;
XX DR WPI; 2003-333167/31.
XX XX New isolated nucleic acid, useful for treating viral diseases associated

```

PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
PS Disclosure; Page 342; 738pp; French.  
XX  
CC The present invention relates to murine oligonucleotides (ACC62754-  
CC ACC6806), which are associated with tumour suppression, tumour  
CC reversion, apoptosis and virus resistance. The oligonucleotides are  
CC useful as (1) as probes and primers for detecting, identifying,  
CC quantifying and/or amplifying nucleic acid, e.g. as one component of a  
CC gene chip; in vitro as (anti)sense reagents; and (2) for preparation of  
CC recombinant polypeptides. The oligonucleotides are useful for preparation  
CC of pharmaceuticals for prevention and/or treatment of viral diseases that  
CC are characterised by development of tumours or cell degeneration,  
CC specifically cancer but also Alzheimer's disease and schizophrenia  
XX  
SQ Sequence 17 BP; 6 A; 4 C; 3 G; 4 T; 0 U; 0 Other;  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1274 ATTCAGACTTGGACC 1290  
DB 17 ATGTCAGACTTGGATC 1  
RESULT 116  
ADB40369  
ID ADB40369 standard; DNA; 17 BP.  
XX  
AC ADB40369;  
XX  
DT 18-DEC-2003 (revised)  
DT 04-DEC-2003 (first entry)  
XX  
DE Tumour suppression/reversion associated nucleotide #692.  
XX  
KW cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;  
KW diagnosis.  
XX  
OS Homo sapiens.  
XX  
PN WO2003040369-A2.  
XX  
PD 15-MAY-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004219.  
XX  
PR 17-SEP-2001; 2001FR-00011981.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
DR WPI; 2003-441574/41.  
XX  
PT New nucleic acid encoding human prostate membrane-specific antigen,  
PT useful e.g. for treatment of tumors and viral infection, also related  
PT polypeptide and antibodies.  
XX  
PS Disclosure; Page 113; 771pp; French.  
XX  
CC The invention relates to the isolation of 6327 nucleotide sequences,  
CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
CC sequence having at least 80% identity, after optimal alignment, with the  
CC nucleotides, a sequence that hybridizes under stringent conditions with  
CC the nucleotides, or the complement, or corresponding RNA, of the  
CC nucleotides. The nucleotides are used as probes or primers for detecting,  
CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
CC sense and antisense sequences, of nucleotides involved in tumour  
CC suppression or reversion, apoptosis and/or viral resistance, to produce  
CC recombinant polypeptides, and to prepare transgenic animals, as  
CC experimental models. The nucleotides (also vectors containing them and

CC suppression or reversion, apoptosis and/or viral resistance, to produce  
CC recombinant polypeptides, and to prepare transgenic animals, as  
CC experimental models. The nucleotides (also vectors containing them and  
CC cells containing the vectors), the encoded polypeptides and antibodies  
CC (Ab) against the polypeptide are useful for prevention and/or treatment  
CC of viral infections or diseases characterized by development of tumours  
CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
CC Analysis of the expression of the nucleotides can be used for diagnosis  
CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
CC also be used to screen for their specific interactive molecules,  
CC potentially useful for treating diseases associated with abnormal  
CC expression of the nucleotides.  
XX  
SQ Sequence 17 BP; 8 A; 4 C; 1 G; 4 T; 0 U; 0 Other;  
Query Match 0.6%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 72;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1125 GATTCATATTAACAACA 1141  
DB 1 GATTCATATTAACAACA 17  
RESULT 117  
ADB40537  
ID ADB40537 standard; DNA; 17 BP.  
XX  
AC ADB40537;  
XX  
DT 18-DEC-2003 (revised)  
DT 04-DEC-2003 (first entry)  
XX  
DE Tumour suppression/reversion associated nucleotide #860.  
XX  
KW cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;  
KW diagnosis.  
XX  
OS Homo sapiens.  
XX  
PN WO2003040369-A2.  
XX  
PD 15-MAY-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004219.  
XX  
PR 17-SEP-2001; 2001FR-00011981.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
DR WPI; 2003-441574/41.  
XX  
PT New nucleic acid encoding human prostate membrane-specific antigen,  
PT useful e.g. for treatment of tumors and viral infection, also related  
PT polypeptide and antibodies.  
XX  
PS Disclosure; Page 132; 771pp; French.  
XX  
CC The invention relates to the isolation of 6327 nucleotide sequences,  
CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
CC sequence having at least 80% identity, after optimal alignment, with the  
CC nucleotides, a sequence that hybridizes under stringent conditions with  
CC the nucleotides, or the complement, or corresponding RNA, of the  
CC nucleotides. The nucleotides are used as probes or primers for detecting,  
CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
CC sense and antisense sequences, of nucleotides involved in tumour  
CC suppression or reversion, apoptosis and/or viral resistance, to produce  
CC recombinant polypeptides, and to prepare transgenic animals, as  
CC experimental models. The nucleotides (also vectors containing them and

CC cells containing the vectors), the encoded polypeptides and antibodies  
 CC (Ab) against the polypeptide are useful for prevention and/or treatment  
 CC of viral infections or diseases characterized by development of tumours  
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
 CC Analysis of the expression of the nucleotides can be used for diagnosis  
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
 CC also be used to screen for their specific interactive molecules.  
 CC potentially useful for treating diseases associated with abnormal  
 CC expression of the nucleotides.  
 XX  
 SQ Sequence 17 BP; 4 A; 7 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1095 GATCAACAGACTCTTCT 1111  
 |||||  
 Db 1 GATCAACAGCTCTCT 17

RESULT 118  
 ADE30808/C  
 ID ADE30808 standard; DNA; 17 BP.  
 XX  
 AC ADE30808;  
 XX

29-JAN-2004 (first entry)

DE Cholesterol homeostasis/adipogenesis related DNA seq id 195.

XX expression vector; anorectic; antiarteriosclerotic; cardiant;  
 KW antidiabetic; elevated cholesterol; elevated lipid; adipogenesis;  
 KW obesity; atherosclerosis; diabetes mellitus;  
 KW coronary artery heart disease; cholesterol homeostasis; ss;  
 KW differential expression.

XX Homo sapiens.

XX US2003180764-A1.

XX 25-SEP-2003.

XX 08-JAN-2003; 2003US-00339793.

XX 09-JAN-2002; 2002US-0347286P.

XX (LYNX-) LYNX THERAPEUTICS INC.

XX Shang J, Bowen B;

XX WPI; 2003-830986/77.

XX Polynucleotides differentially regulated in response to cholesterol and  
 PT adipogenesis are useful to detect and treat associated conditions such as  
 PT obesity, atherosclerosis, diabetes mellitus and coronary artery heart  
 PT disease.

XX Claim 8; SEQ ID NO 195; 59pp; English.

XX The invention describes a composition comprising at least one expression  
 CC vector comprising a polynucleotide of the invention. The composition has  
 CC anorectic, antiarteriosclerotic, cardiant and antidiabetic properties.  
 CC The invention is used to detect and treat conditions associated with  
 CC elevated cholesterol and lipid or during adipogenesis, particularly  
 CC obesity, atherosclerosis, diabetes mellitus or coronary artery heart  
 CC disease. This sequence represents a polynucleotide differentially  
 CC expressed during cholesterol homeostasis and adipogenesis.

XX Sequence 17 BP; 3 A; 2 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 72;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1082 TGAATCACCACCCAGATC 1098  
 |||||  
 Db 17 TGCACCTCACACCAGATC 1

RESULT 119  
 AAT37715/C  
 ID AAT37715 standard; mRNA; 15 BP.

XX AAT37715;

XX 13-NOV-1996 (first entry)

DE Apo(a) mRNA (nt. pos. 11254) hammerhead ribozyme target sequence.

XX Enzymatic RNA molecule; cleavage; apolipoprotein (a); apo(a);  
 KW hammerhead ribozyme; target sequence; diagnosis; treatment;  
 KW lipoprotein (a); atherosclerosis; myocardial infarction; stroke;  
 KW restenosis; heart disease; monkey; ss.

XX Cebus apella.

XX WO9609392-A1.

XX 28-MAR-1996.

XX 21-SEP-1995; 95WO-US011995.

XX 23-SEP-1994; 94US-00311760.

XX (RIBO-) RIBOZYME PHARM INC.

XX Stinchcomb DT, Mcswiggen J, Newton RS, Ramharack R;

XX WPI; 1996-188454/19.

XX Enzymatic RNA mols. which cleave apo(a) mRNA - useful in diagnosis and  
 PT treatment of conditions related to Lp(a) levels, e.g. atherosclerosis,  
 PT myocardial infarction, and heart diseases.

XX Claim 3; Page 21; 37pp; English.

XX A claimed enzymatic RNA mol. for the cleavage of apolipoprotein (a)  
 CC (apo(a)) mRNA, specifically a hammerhead ribozyme, has binding arms  
 CC complementary to the present sequence (nucleotide position 11254). The  
 CC ribozyme blocks to some extent apo(a) expression, and can therefore be  
 CC used to diagnose or treat conditions related to lipoprotein (a) levels,  
 CC e.g. atherosclerosis, myocardial infarction, stroke, restenosis and heart  
 CC disease. PCR was used to generate a substrate for T7 RNA polymerase  
 CC transcription from monkey apo(a) cDNA clones. Labelled transcripts were  
 CC synthesised in vitro to form 2 templates. The oligonucleotides and  
 CC labelled transcripts were annealed, RNaseH added and the mixts.  
 CC incubated. After a designated time the reactions were stopped, and RNA  
 CC sepd. on sequencing polyacrylamide gels. The percentage of substrate  
 CC cleaved was determined by autoradiographic quantification, and the most  
 CC accessible ribozyme target sites chosen

XX Sequence 15 BP; 4 A; 3 C; 3 G; 0 T; 5 U; 0 Other;

Query Match 0.6%; Score 13.4; DB 1; Length 15;

Best Local Similarity 93.3%; Pred. No. 78;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 801 TTCTTCAGGAGAGC 815

Db 15 TTCTTCAGGAGAGC 1

RESULT 120  
 AAV48847/C  
 ID AAV48847 standard; DNA; 15 BP.



```

XX AC AAV48847;
XX AC 15-OCT-1998 (first entry)
XX DT Erbb-2 gene antisense oligonucleotide Erbb-2-N-56.
XX DE Erbb-2; antisense oligonucleotide; modulate; gene expression; ss.
XX KW Synthetic.
XX OS Homo sapiens.
XX OS EP856579-A1.
XX PN 05-AUG-1998.
XX XX 31-JAN-1997; 97EP-00101531.
XX XX 31-JAN-1997; 97EP-00101531.
XX PR (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX PA Schlingensiepen K, Brysch W;
XX PI WPI; 1998-400910/35.
XX DR Preparation of antisense oligo:nucleotide(s) which lack long runs of
XX PT consecutive guanosine or inosine - and have specific ratio of residues
XX PT able to form two or three hydrogen bonds, have greater activity and
XX PT reduced toxicity, used therapeutically or to modulate growth of cells in
XX PT culture.
XX PS Example 4; Fig 6c; 286pp; English.
XX CC AAV48709-886 represent antisense oligonucleotides directed against the
XX CC Erbb-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in
XX CC significant reduction in Erbb-2 protein expression, while
XX CC oligonucleotides AAV48792-886 had little effect. The oligonucleotides
XX CC exemplify the invention. The specification describes oligonucleotides
XX CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that
XX CC can each form three hydrogen bonds to cytosine; do not contain four
XX CC consecutive nucleotides able to form three H-bonds each to four
XX CC consecutive cytosines; do not contain two sequences of three consecutive
XX CC nucleotides each able to form three H-bonds to three consecutive
XX CC cytosines, and the ratio between residues able to form two H-bonds each
XX CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
XX CC oligonucleotides are used to modulate expression of genes, particularly
XX CC the genes for p53, ErbB-2, junB, junD, TGF-beta 1 or beta 2 to control
XX CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
XX CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
XX CC oligonucleotides can also be used to analyse function of proteins (by
XX CC altering their expression or activity) and therapeutically, e.g. in cases
XX CC of cancer or (targeting TGF) for stimulating the immune system
XX SQ Sequence 15 BP; 10 A; 2 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 0.6%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1445 TATGTTTAGTTTATA 1459
DB 15 TCTGTTTAGTTTATA 1

RESULT 121
AAF47996/c
ID AAF47996 standard; DNA; 15 BP.
XX AC AAF47996;
XX AC AAF47996;
XX DT 30-MAR-2001 (first entry)
XX KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
XX KW immunogenetic; transplantation; genetic disease; ss.

```

```

DE XX IGFBP3 oligonucleotide #1416.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; insulin-like growth factor 1 receptor; IGF-1; ptyriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX OS Homo sapiens.
XX OS WO200078341-A1.
XX PN 28-DEC-2000.
XX PD 21-JUN-2000; 2000WO-AU000693.
XX PF 21-JUN-1999; 99US-0140345P.
XX PR (MURD-) MURDOCH CHILDRENS RES INST.
XX PA Wright CJ, Werther GA, Edmondson SR;
XX PI WPI; 2001-041421/05.
XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 7; Page 53; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antisense
XX CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX CC F45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, ptyriasis, ruba, pilaris, serborrhoea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 6 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
Query Match 0.6%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 788 GGGGTGTAAGGTTT 802
DB 15 GGGGTGTAAGGTTT 1

RESULT 122
ABL31461/c
ID ABL31461 standard; DNA; 15 BP.
XX AC ABL31461;
XX AC ABL31461;
XX DT 21-MAR-2002 (first entry)
XX DE Human HLA genotyping oligonucleotide SEQ ID NO 950.
XX KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
XX KW immunogenetic; transplantation; genetic disease; ss.

```

```

XX OS Homo sapiens.
XX XX
XX FN WO200192572-A1.
XX XX
XX PD 06-DEC-2001.
XX XX
XX PF 01-JUN-2001; 2001WO-JP004662.
XX XX
XX PR 01-JUN-2000; 2000JP-00164798.
XX XX
XX PA (NISR) NISSHINO IND INC.
XX PA (SYST-) SYSTEM RES INC.
XX XX
XX PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
XX XX WPI; 2002-122074/16.
XX DR
XX XX Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of
XX PT individuals e.g. by determining immunogenetic differences when
XX PT transplanting between them.
XX PT
XX PS Claim 10; Page 273; 345pp; Japanese.
XX XX
XX CC The invention relates to a typing kit for judging human leukocyte antigen
XX CC (HLA) genotype of a sample by hybridising a substrate on which 10-24 base
XX CC oligonucleotides (ABJ30512-ABJ31809) originating in the sequences of
XX CC genes e.g. belonging to HLA class I antigens on human genome and
XX CC containing gene polymorphisms as alloantigens have been immobilised as
XX CC primers for amplification of cleaved nucleic acids relating to gene
XX CC polymorphisms. The method is useful for judging HLA genotypes of
XX CC individuals by determining immunogenetic differences before transplanting
XX CC between them, providing genetic information to decide compatibility of
XX CC organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
XX CC pancreas, Langerhans islet in pancreas and cornea, susceptibility
XX CC diagnosis of genetic diseases and identifying individuals
XX XX
XX SQ Sequence 15 BP; 7 A; 1 C; 7 G; 0 T; 0 U; 0 Other;
XX
Query Match 0.6%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1640 CTTTCCTGCTCTCT 1654
DB 15 CTTTCCTGCTCTCT 1
XX
RESULT 123
AAI64950/C
XX ID AAI64950 standard; DNA; 16 BP.
XX XX
XX AC AAI64950;
XX XX
XX DT 04-DEC-2001 (first entry)
XX XX
XX DE Human Cream1 protein coding sequence intron 11/exon 12 junction.
XX XX
XX KW Human; Cream1; repeat; transcriptional control factor; Rb;
XX KW retinoblastoma protein; intron-exon junction; ds.
XX XX
XX OS Homo sapiens.
XX XX CNI303861-A.
XX XX
XX PD 18-JUL-2001.
XX XX
XX PF 07-JAN-2000; 2000CN-00111426.
XX XX
XX PR 07-JAN-2000; 2000CN-00111426.
XX XX
XX PA (SHAN-) SHANGHAI INST CYTOBIOLOGY CHINESE ACAD.
XX XX

```

```

PI Zhu X, Yan X, Qian M;
XX XX WPI; 2001-566148/64.
XX XX
XX PT New retinoblastoma protein binding protein, its preparation and
XX PT application.
XX XX
XX PS Disclosure; Fig 3B; 35pp; Chinese.
XX XX
XX CC The present invention relates to the coding sequence of human Cream1,
XX CC which is a protein containing a repetitive 86 amino acid motif. The
XX CC protein is a transcriptional control factor, and is a conjugate of
XX CC retinoblastoma protein (RB). The present sequence is the an intron-exon
XX CC junction in the coding sequence of the invention
XX XX
XX SQ Sequence 16 BP; 4 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.6%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 81;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 777 CTGACCTGTGAGGG 791
DB 15 CTGACCTGTGAGGG 1
XX
RESULT 124
AAV10983
XX ID AAV10983 standard; RNA; 13 BP.
XX XX
XX AC AAV10983;
XX XX
XX DT 25-MAR-2003 (revised)
XX DT 14-JUL-1998 (first entry)
XX XX
XX DE Human ribozyme target sequence from HLA-B exon 4 #2.
XX XX
XX KW Ribozyme; target; human lymphocyte antigen; HLA-B; MHC allele;
XX KW major histocompatibility complex; cleavage; suppression; transplant;
XX KW incompatibility; autoimmune disease; juvenile diabetes;
XX KW rheumatoid arthritis; ss.
XX XX
XX OS Homo sapiens.
XX XX WO9704087-A1.
XX XX
XX PD 06-FEB-1997.
XX XX
XX PF 18-JUL-1996; 96WO-EP003173.
XX PR 18-JUL-1995; 95EP-00111256.
XX XX
XX PA (KRUP/) KRUPP G.
XX PA (MARG/) MARGET M.
XX PA (WEST/) WESTPHAL E.
XX PA (MUEL/) MUELLER-RUCHHOLTZ W.
XX XX
XX PI Krupp G, Marget M, Westphal E, Mueller-Ruchholtz W;
XX XX WPI; 1997-132628/12.
XX DR
XX XX Ribozyme that cleaves specific MHC allele(s) - used to inhibit graft
XX PT versus host reactions, to overcome blood incompatibility and to treat
XX PT auto-immune disease.
XX XX
XX PS Claim 5; Fig 1; 76pp; German.
XX XX
XX CC AAV10915-V11123 are target sequences for a novel ribozyme which cleaves
XX CC specific alleles from the major histocompatibility complex (MHC). This
XX CC ribozyme contains a catalytic region and a hybridisation region which is
XX CC complementary to all mRNA transcribed from vertebrate genes of a specific
XX CC family of closely related MHC alleles or to mRNA from a single MHC
XX CC allele, and is able to cleave such mRNA. The mRNA has a target region

```

CC which in case is essentially conserved in all genes of the family but  
 CC differs from genes of all other MHC alleles to such a degree that no  
 CC cleavage of mRNA transcribed from these other alleles occurs. This allows  
 CC the selective reduction or inhibition of expression of all genes of a  
 CC family or of a single gene. This ribozyme can be used for permanent or  
 CC transient suppression of expression of MHC alleles, in vivo or in vitro.  
 CC Specific applications are to prevent guest vs. host or host vs. guest  
 CC reactions, to prevent blood incompatibilities (partic. of the ABO, rhesus  
 CC and Kell systems) and to treat autoimmune diseases such as juvenile  
 CC diabetes and rheumatoid arthritis. The use of this ribozyme avoids the  
 CC need for immunosuppressants in transplant patients. It provides very  
 CC specific reduction of particular HLA molecules that cause incompatibility  
 CC between donor and recipient. (Updated on 25-MAR-2003 to correct PA  
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)  
 XX  
 SQ Sequence 13 BP; 1 A; 4 C; 3 G; 0 T; 5 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 61.5%; Pred. No. 84;  
 Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 560 CTTGGTCTTCTAC 572  
 Db 1 CCUGGUUUCAC 13  
 ||:||||:|

RESULT 125  
 ABC82063/C  
 ID ABC82063 standard; DNA; 13 BP.  
 XX  
 AC ABC82063;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 82080 for detecting SNP TSC0020752.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN W0200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 82080; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

CC ftp.wipo.int/pub/published\_pct\_sequences  
 SQ Sequence 13 BP; 9 A; 2 C; 0 G; 2 T; 0 U; 0 Other;  
 XX  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1448 GTTAGTTTAT 1460  
 Db 13 GTTAGTTTAT 1  
 |||||

RESULT 126  
 ABF77671  
 ID ABF77671 standard; DNA; 13 BP.  
 XX  
 AC ABF77671;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 177668 for detecting SNP TSC0005430.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN W0200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 177668; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

Sequence 13 BP; 9 A; 2 C; 0 G; 2 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1252 AATTCACAAAAA 1264  
 Db 1 AATTCACAAAAA 13  
 |||||

```

RESULT 127
ABF42907/c
ID ABF42907 standard; DNA; 13 BP.
XX
AC ABF42907;
XX
DT 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 142904 for detecting SNP TSC0035843.
XX
DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 142904; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 U; 0 Other;
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Query Match 0.6%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1165 ATAAATTTTAAA 1177
Db 13 ATAAATTTTAAA 1

RESULT 128
ABF60108
ID ABF60108 standard; DNA; 13 BP.
XX
AC ABF60108;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 160105 for detecting SNP TSC0040306.
XX
DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

```

```

XX Homo sapiens.
XX OS
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 160105; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 2 A; 0 C; 2 G; 9 T; 0 U; 0 Other;
XX
CC Query Match 0.6%; Score 13; DB 1; Length 13;
CC Best Local Similarity 100.0%; Pred. No. 84;
CC Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1447 TGTTAGTTTTTA 1459
Db 1 TGTTAGTTTTTA 13

RESULT 129
ABF90851
ID ABF90851 standard; DNA; 13 BP.
XX
AC ABF90851;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 190848 for detecting SNP TSC0046944.
XX
DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX

```

PI Olek A, Piepenbrock C, Berlin K;  
XX WPI; 2001-657177/75.  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 190848; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 9 A; 1 C; 0 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1160 AACAAATAAATT 1172  
DB 1 AACAAATAAATT 13  
RESULT 130  
ABC01400/C  
ID ABC01400 standard; DNA; 13 BP.  
XX  
XX ABC01400;  
XX  
XX 20-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 1391 for detecting SNP TSC0000491.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIS-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 1391; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 2 A; 0 C; 1 G; 10 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1156 AAATAACAAATAA 1168  
DB 13 AAATAACAAATAA 1  
RESULT 131  
ABH40300/C  
ID ABH40300 standard; DNA; 13 BP.  
XX  
XX ABH40300;  
XX  
XX 22-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 240277 for detecting SNP TSC0058601.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 240277; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 FR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPiG-) EPIGENOMICS AG.  
 XX  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 DR  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 7995; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1451 TAGTTTTTATATAA 1463  
 Db 1 TAGTTTTTATATAA 13  
 RESULT 135  
 ABC37607/C  
 ID ABC37607 standard; DNA; 13 BP.  
 XX  
 AC ABC37607;  
 XX  
 DT 20-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 37624 for detecting SNP TSC0011703.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 FR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPiG-) EPIGENOMICS AG.  
 XX  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 DR  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 37624; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 13 BP; 9 A; 2 C; 0 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1446 ATGTTTACTTTTTT 1458  
 Db 13 ATGTTTACTTTTTT 1  
 RESULT 136  
 ABC64450  
 ID ABC64450 standard; DNA; 13 BP.  
 XX  
 AC ABC64450;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 64467 for detecting SNP TSC0017002.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 FR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPiG-) EPIGENOMICS AG.  
 XX  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 DR  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 64467; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 13 BP; 9 A; 2 C; 0 G; 2 T; 0 U; 0 Other;  
 SQ

CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1116 TTTATTATGATT 1128  
 DB 1 TTTATTATGATT 13  
 |||||

RESULT 137  
 ABC39964  
 ID ABC39964 standard; DNA; 13 BP.  
 AC  
 AC ABC39964;  
 XX  
 DT 20-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 39981 for detecting SNP TSC0012181.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 39981; 29pp + Sequence Listing; German.  
 CC  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 7 A; 0 C; 5 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1547 AAAGGATAGAG 1559  
 |||||

Db 1 AAAGGATAGAG 13  
 RESULT 138  
 ABC79783/C  
 ID ABC79783 standard; DNA; 13 BP.  
 XX  
 AC ABC79783;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 79800 for detecting SNP TSC0020264.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 79800; 29pp + Sequence Listing; German.  
 CC  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 6 A; 6 C; 0 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 735 GTTGTGTGTGAG 747  
 |||||  
 DB 13 GTTGTGTGTGAG 1  
 |||||

RESULT 139  
 ABC39965/C  
 ID ABC39965 standard; DNA; 13 BP.  
 XX  
 AC ABC39965;  
 XX  
 DT 20-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 39982 for detecting SNP TSC0012181.  
 XX



KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 39982; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 1 A; 5 C; 0 G; 7 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. NO. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1547 AAAGGATAGAG 1559  
 Db 13 AAAGGATAGAG 1  
 RESULT 140  
 ID ABF20975/C  
 XX  
 AC ABF20975;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 120972 for detecting SNP TSC0030183.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 120972; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 1 A; 5 C; 0 G; 7 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. NO. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1547 AAAGGATAGAG 1559  
 Db 13 AAAGGATAGAG 1  
 RESULT 140  
 ID ABF20975/C  
 XX  
 AC ABF20975;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 120972 for detecting SNP TSC0030183.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX

XX (EPIG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI  
 XX WPI; 2001-657177/75.  
 DR  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 120972; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 2 A; 4 C; 0 G; 7 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. NO. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1395 TTGGAAGAAAGAA 1407  
 Db 13 TTGGAAGAAAGAA 1  
 RESULT 141  
 ID ABF53585/C  
 XX  
 AC ABF53585;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 153582 for detecting SNP TSC0038830.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 153582; 29pp + Sequence Listing; German.  
 XX

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX  
 XX SQ Sequence 13 BP; 6 A; 5 C; 0 G; 2 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 736 TTGTTTGTGGAGA 748  
 DB 13 TTGTTTGTGGAGA 1  
 |||||

RESULT 142  
 ABF94684  
 ID ABF94684 standard; DNA; 13 BP.  
 XX AC ABF94684;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 194681 for detecting SNP TSC0047884.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX PI WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 XX designed to detect single-nucleotide polymorphisms and cytosine  
 XX methylation status.  
 XX Claim 1; SEQ ID NO 194681; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1170 ATTTTAAAGAG 1182  
 DB 1 ATTTTAAAGAG 13  
 |||||

RESULT 143  
 ABF77670/C  
 ID ABF77670 standard; DNA; 13 BP.  
 XX AC ABF77670;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 177667 for detecting SNP TSC0005430.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX PI WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 XX designed to detect single-nucleotide polymorphisms and cytosine  
 XX methylation status.  
 XX Claim 1; SEQ ID NO 177667; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX  
 XX SQ Sequence 13 BP; 2 A; 0 C; 2 G; 9 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1252 AATTCACAAAAA 1264  
 DB 13 AATTCACAAAAA 1  
 |||||

RESULT 144  
 ABF60109/c



DR WPI; 2001-657177/75.  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 79799; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 1 A; 0 C; 6 G; 6 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 735 GTTGTGTTGGAG 747  
DB 1 GTTGTGTTGGAG 13  
  
RESULT 147  
ABC07509/C  
ID ABC07509 standard; DNA; 13 BP.  
XX  
XX AC ABC07509;  
XX  
XX 20-FEB-2002 (first entry)  
DE Oligonucleotide SEQ ID NO 7500 for detecting SNP TSC0002171.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 7500; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 1 A; 0 C; 6 G; 6 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 735 GTTGTGTTGGAG 747  
DB 1 GTTGTGTTGGAG 13  
  
RESULT 148  
ABF20974  
ID ABF20974 standard; DNA; 13 BP.  
XX  
XX AC ABF20974;  
XX  
XX 21-FEB-2002 (first entry)  
DE Oligonucleotide SEQ ID NO 120971 for detecting SNP TSC00030183.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 120971; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 7 A; 0 C; 4 G; 2 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1163 AAATATAAATTTTA 1175  
DB 13 AAATATAAATTTTA 1  
  
RESULT 148  
ABF20974  
ID ABF20974 standard; DNA; 13 BP.  
XX  
XX AC ABF20974;  
XX  
XX 21-FEB-2002 (first entry)  
DE Oligonucleotide SEQ ID NO 120971 for detecting SNP TSC00030183.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 120971; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 7 A; 0 C; 4 G; 2 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;





```

CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 U; 0 Other;
    Query Match      0.6%; Score 13; DB 1; Length 13;
    Best Local Similarity 100.0%; Pred. No. 84;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1116 TTTATTATGGATT 1128
Db 13 TTTATTATGGATT 1

RESULT 154
ABF86381/C
ID ABF86381 standard; DNA; 13 BP.
XX AC ABF86381;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 186378 for detecting SNP TSC0045896.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 186378; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 U; 0 Other;
    Query Match      0.6%; Score 13; DB 1; Length 13;
    Best Local Similarity 100.0%; Pred. No. 84;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1164 AATAAAATTTAA 1176
Db 13 AATAAAATTTAA 1

RESULT 156
ABF51767/C
ID ABF51767 standard; DNA; 13 BP.
XX AC ABF51767;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 151764 for detecting SNP TSC0038341.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

```

```

RESULT 155
ABC07508
ID ABC07508 standard; DNA; 13 BP.
XX AC ABC07508;
XX DT 20-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 7499 for detecting SNP TSC0002171.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 7499; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 U; 0 Other;
    Query Match      0.6%; Score 13; DB 1; Length 13;
    Best Local Similarity 100.0%; Pred. No. 84;
    Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1163 AATAAAATTTAA 1175
Db 1 AATAAAATTTAA 13

RESULT 156
ABF51767/C
ID ABF51767 standard; DNA; 13 BP.
XX AC ABF51767;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 151764 for detecting SNP TSC0038341.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

```

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX WO200177384-A2.  
 PN 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 151764; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABF90850, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1456 TTTATATAAAGTAT 1468  
 Db 13 TTTATATAAAGTAT 1  
 RESULT 157  
 ABF90850/C  
 ID ABF90850 standard; DNA; 13 BP.  
 XX AC ABF90850;  
 XX 22-FEB-2002 (first entry)  
 DE Oligonucleotide SEQ ID NO 190847 for detecting SNP TSC0046944.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 190847; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 13 BP; 3 A; 0 C; 1 G; 9 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1160 AACAAATAAAATT 1172  
 Db 13 AACAAATAAAATT 1  
 RESULT 158  
 ABC08005/C  
 ID ABC08005 standard; DNA; 13 BP.  
 XX AC ABC08005;  
 XX 20-FEB-2002 (first entry)  
 DE Oligonucleotide SEQ ID NO 7996 for detecting SNP TSC0002255.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 7996; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)



CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligonucleotides are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1451 TAGTTTTTATAAA 1463  
 DB 13 TAGTTTTTATAAA 1

RESULT 159  
 ABF51766  
 ID ABF51766 standard; DNA; 13 BP.  
 XX AC ABF51766;  
 XX AC  
 XX DT 21-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 151763 for detecting SNP TSC0038341.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 XX designed to detect single-nucleotide polymorphisms and cytosine  
 XX methylation status.  
 XX PS Claim 1; SEQ ID NO 151763; 29pp + Sequence Listing; German.  
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1456 TTTATAAAAGTAT 1468  
 DB 1 TTTATAAAAGTAT 13

RESULT 160  
 ABH40301  
 ID ABH40301 standard; DNA; 13 BP.  
 XX AC ABH40301;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 240278 for detecting SNP TSC0058601.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 XX designed to detect single-nucleotide polymorphisms and cytosine  
 XX methylation status.  
 XX PS Claim 1; SEQ ID NO 240278; 29pp + Sequence Listing; German.  
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1162 CAAATAAAATTTT 1174  
 DB 1 CAAATAAAATTTT 13

RESULT 161  
 ABC37606  
 ID ABC37606 standard; DNA; 13 BP.  
 XX AC ABC37606;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 240278 for detecting SNP TSC0058601.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 XX designed to detect single-nucleotide polymorphisms and cytosine  
 XX methylation status.  
 XX PS Claim 1; SEQ ID NO 240278; 29pp + Sequence Listing; German.  
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

```

AC ABC37606;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 37623 for detecting SNP TSC0011703.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 37623; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABIO0010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 2 A; 0 C; 2 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 0.6%; Score 13; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 84;
XX Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1446 ATGTTTAGTTTTT 1458
XX 1 ATGTTTAGTTTTT 13
XX
XX RESULT 162
XX ABF88709
XX ID ABF88709 standard; DNA; 13 BP.
XX
XX AC ABF88709;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 188706 for detecting SNP TSC0046458.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX

```

```

XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 188706; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABIO0010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 3 A; 3 C; 0 G; 7 T; 0 U; 0 Other;
XX
XX Query Match 0.6%; Score 13; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 84;
XX Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1107 CTCTACATTTTA 1119
XX 1 CTCTACATTTTA 13
XX
XX RESULT 163
XX ABF94685/C
XX ID ABF94685 standard; DNA; 13 BP.
XX
XX AC ABF94685;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 194682 for detecting SNP TSC0047884.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX

```

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

PS Claim 1; SEQ ID NO 194682; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
XX and cytosine methylation status in chemically pretreated genomic DNA. The  
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
XX range of diseases including immune system, gastrointestinal, respiratory,  
XX central nervous system, cardiovascular and metabolic disorders. The  
XX oligomers are also used for detecting cell type differentiation. ABC00010  
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
XX represent the oligomers described in the invention. NOTE: The sequence  
XX data for this patent did not form part of the printed specification, but  
XX was obtained in electronic format from WIPO at  
XX ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1170 ATTTTAAAGAAG 1182

Db 13 ATTTTAAAGAAG 1

RESULT 164

ABF53584  
ID ABF53584 standard; DNA; 13 BP.

AC ABF53584;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 153581 for detecting SNP TSC0038830.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

PN 18-OCT-2001.

PF 06-APR-2001; 2001WO-18000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
XX designed to detect single-nucleotide polymorphisms and cytosine  
XX methylation status.

PS Claim 1; SEQ ID NO 153581; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
XX and cytosine methylation status in chemically pretreated genomic DNA. The  
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
XX range of diseases including immune system, gastrointestinal, respiratory,  
XX central nervous system, cardiovascular and metabolic disorders. The  
XX oligomers are also used for detecting cell type differentiation. ABC00010

CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 2 A; 0 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 13;  
Best Local Similarity 100.0%; Pred. No. 84;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 736 TTGTTTCTGGAGA 748

Db 1 TTGTTTCTGGAGA 13

RESULT 165

AAQ92723  
ID AAQ92723 standard; DNA; 14 BP.

AC AAQ92723;

DT 13-FEB-1996 (first entry)

DE c-erbB-2 antisense nucleic acid #66.

XX Antisense nucleic acid; c-erbB-2; inhibition; fibroblast; neoplasm;  
XX p185-erbB-2 protein tyrosine kinase; tumour; breast cancer; detection;  
XX immune disease; angiogenesis; ss.

OS Synthetic.

XX WO9517507-A1.

XX 29-JUN-1995.

PF 09-DEC-1994; 94WO-EP004094.

PR 23-DEC-1993; 93EP-00120710.

PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.

XX Brysch W, Schlingensiepen K, Schlingensiepen R, Schlingensiepen G;

XX WPI; 1995-240669/31.

XX New anti:sense nucleic acid against C-erbB-2 - for treating or preventing  
XX neoplasms, immune disease and angiogenesis, also for diagnosis.

PS Claim 1; Page 35; 55pp; English.

XX The sequences given in AAQ92658-762 are antisense nucleic acids which  
XX hybridise with part of the mRNA and/or DNA encoding c-erbB-2. These  
XX antisense nucleic acids are able to inhibit the expression of the p185-  
XX erbB-2 protein tyrosine kinase activity and cell growth in a number of  
XX tumour cells including breast cancer cells. Untransformed normal  
XX fibroblasts are not growth inhibited by anti-c-erbB-2 antisense compounds  
XX suggesting that p185-erbB-2 plays a pathogenic role in the growth of the  
XX above mentioned tumours. These antisense oligonucleotides may be used in  
XX the prevention and treatment of neoplasms, immune diseases and/or  
XX diseases involving pathological angiogenesis when associated with c-erbB-  
XX 2 expression. They may also be used to detect expression of the relevant  
XX genes

XX Sequence 14 BP; 3 A; 6 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 14;  
Best Local Similarity 100.0%; Pred. No. 88;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1632 CCTCAACACTTTG 1644

|||||

```

Db      2 CCTCAACACTTGTG 14

RESULT 166
AAV48848/c
ID      AAV48848 standard; DNA; 14 BP.
XX
XX
AC      AAV48848;
XX
DT      15-OCT-1998 (first entry)
XX
DE      ErbB-2 gene antisense oligonucleotide ErbB-2-N-57.
XX
XX      ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
XX
XX      Synthetic.
XX      Homo sapiens.
XX
PN      EP856579-A1.
XX
PD      05-AUG-1998.
XX
PF      31-JAN-1997; 97EP-00101531.
XX
PR      31-JAN-1997; 97EP-00101531.
XX
PA      (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
PI      Schlingensiepen K, Brysch W;
XX
DR      WPI; 1998-400910/35.
XX
PT      Preparation of antisense oligo:nucleotide(s) which lack long runs of
PT      consecutive guanosine or inosine - and have specific ratio of residues
PT      able to form two or three hydrogen bonds, have greater activity and
PT      reduced toxicity, used therapeutically or to modulate growth of cells in
PT      culture.
XX
PS      Example 4; Fig 6c; 286pp; English.
XX
CC      AAV48709-886 represent antisense oligonucleotides directed against the
CC      ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in
CC      significant reduction in ErbB-2 protein expression, while
CC      oligonucleotides AAV48792-886 had little effect. The oligonucleotides
CC      exemplify the invention. The specification describes oligonucleotides
CC      that contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC      can each form three hydrogen bonds to cytosine; do not contain four
CC      consecutive nucleotides able to form three H-bonds each to four
CC      consecutive cytosines; do not contain two sequences of three consecutive
CC      nucleotides each able to form three H-bonds to form two H-bonds each
CC      cytosines, and the ratio between residues able to form two H-bonds each
CC      (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
CC      oligonucleotides are used to modulate expression of genes, particularly
CC      the genes for p53, ErbB-2, junB, jund, TGF-beta 1 or beta 2 to control
CC      proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC      kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC      oligonucleotides can also be used to analyse function of proteins (by
CC      altering their expression or activity) and therapeutically, e.g. in cases
CC      of cancer or (targeting TGF) for stimulating the immune system
XX
SQ      Sequence 14 BP; 9 A; 2 C; 1 G; 2 T; 0 U; 0 Other;
      Query Match 0.6%; Score 13; DB 1; Length 14;
      Best Local Similarity 100.0%; Pred. No. 88;
      Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1447 TGTATTAGTTTATA 1459
      |||||
Db      13 TGTATTAGTTTATA 1

RESULT 167
AAV48849/c
ID      AAV48849 standard; DNA; 14 BP.
XX
XX
AC      AAV48849;
XX
DT      15-OCT-1998 (first entry)
XX
DE      ErbB-2 gene antisense oligonucleotide ErbB-2-N-58.
XX
XX      ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
XX
XX      Synthetic.
XX      Homo sapiens.
XX
PN      EP856579-A1.
XX
PD      05-AUG-1998.
XX
PF      31-JAN-1997; 97EP-00101531.
XX
PR      31-JAN-1997; 97EP-00101531.
XX
PA      (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
PI      Schlingensiepen K, Brysch W;
XX
DR      WPI; 1998-400910/35.
XX
PT      Preparation of antisense oligo:nucleotide(s) which lack long runs of
PT      consecutive guanosine or inosine - and have specific ratio of residues
PT      able to form two or three hydrogen bonds, have greater activity and
PT      reduced toxicity, used therapeutically or to modulate growth of cells in
PT      culture.
XX
PS      Example 4; Fig 6c; 286pp; English.
XX
CC      AAV48709-886 represent antisense oligonucleotides directed against the
CC      ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in
CC      significant reduction in ErbB-2 protein expression, while
CC      oligonucleotides AAV48792-886 had little effect. The oligonucleotides
CC      exemplify the invention. The specification describes oligonucleotides
CC      that contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC      can each form three hydrogen bonds to cytosine; do not contain four
CC      consecutive nucleotides able to form three H-bonds each to four
CC      consecutive cytosines; do not contain two sequences of three consecutive
CC      nucleotides each able to form three H-bonds to form two H-bonds each
CC      cytosines, and the ratio between residues able to form two H-bonds each
CC      (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
CC      oligonucleotides are used to modulate expression of genes, particularly
CC      the genes for p53, ErbB-2, junB, jund, TGF-beta 1 or beta 2 to control
CC      proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC      kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC      oligonucleotides can also be used to analyse function of proteins (by
CC      altering their expression or activity) and therapeutically, e.g. in cases
CC      of cancer or (targeting TGF) for stimulating the immune system
XX
SQ      Sequence 14 BP; 9 A; 2 C; 1 G; 2 T; 0 U; 0 Other;
      Query Match 0.6%; Score 13; DB 1; Length 14;
      Best Local Similarity 100.0%; Pred. No. 88;
      Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1447 TGTATTAGTTTATA 1459
      |||||
Db      13 TGTATTAGTTTATA 1

RESULT 168
AAV66868
ID      AAV66868 standard; RNA; 15 BP.
XX
XX
AC      AAV66868;
XX
DT      20-JUL-1999 (first entry)

```

```

XX DE Mouse CD40 hammerhead ribozyme target SEQ ID NO:3500.
XX KW Arthritic condition; graft tolerance; immune response; target; cleavage;
XX KW hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;
XX KW stromelysin; synovial membrane; joint; arthritis; osteoarthritis;
XX KW rheumatoid arthritis; autoimmune disease; allergy; inflammation;
XX KW diagnosis; ss.
XX OS Mus sp.
XX PN WO9618736-A2.
XX PD 20-JUN-1996.
XX PF 22-NOV-1995; 95WO-US015516.
XX PR 13-DEC-1994; 94US-00354920.
XX PR 23-DEC-1994; 94US-00363253.
XX PR 23-DEC-1994; 94US-00363254.
XX PR 17-FEB-1995; 95US-00390850.
XX PR 20-APR-1995; 95US-00426124.
XX PR 02-MAY-1995; 95US-00432874.
XX PR 04-MAY-1995; 95US-00434509.
XX PR 07-JUL-1995; 95US-0000951P.
XX PR 07-JUL-1995; 95US-0000974P.
XX PR 07-AUG-1995; 95US-00512861.
XX PR 08-OCT-1995; 95US-00541365.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Beigelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P;
XX PI Mcswiggen J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J;
XX PI Karpeisky A, Thompson JD, Modak A, Burgin A;
XX DR WPI; 1996-300653/30.
XX PT Enzymatic nucleic acid molecules having a hammer-head motif - used for
XX PT the treatment of arthritis, induction of graft tolerance or treatment of
XX PT auto-immune diseases.
XX PS Claim 10; Page 210; 307pp; English.
XX CC The present invention describes a novel enzymatic nucleic acid (ENA)
XX CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues
XX CC ; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
XX CC ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
XX CC can inhibit collagenase and stromelysin production in the synovial
XX CC membrane of joints for the treatment or prevention of arthritis.
XX CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
XX CC be used to treat antigen presenting cells of a donor to induce tolerance
XX CC in a recipient to an alloantigen of a donor. They can also be used for
XX CC enhancing graft tolerance or for treating autoimmune disease, and for
XX CC treating allergies and other inflammatory conditions. The ENA's can also
XX CC be used in diagnosis. Ribozyme therapy impacts on the expression of
XX CC stromelysin without introducing the non-specific effects upon gene
XX CC expression which accompany treatment with retinoids and dexamethasone.
XX CC The concentration of ribozyme required to affect a therapeutic treatment
XX CC is lower than that required of antisense molecules, and is highly
XX CC specific. The present sequence is used in the exemplification of the
XX CC present invention
XX SQ Sequence 15 BP; 1 A; 4 C; 4 G; 0 T; 6 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 61.5%; Pred. No. 92;
Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 561 CTGGGTTTCTACC 573
DB 1 CUGGUUUUCUACC 13

RESULT 170
ABN80545
ID ABN80545 standard; DNA; 15 BP.
XX AC ABN80545;
XX AC ABN80545;
XX DT 19-JUL-2002 (first entry)
XX DT 19-JUL-2002 (first entry)

RESULT 169
AAZ62853
ID AAZ62853 standard; RNA; 15 BP.
XX AC AAZ62853;
XX AC AAZ62853;
XX DT 28-MAR-2000 (first entry)
XX DE Substrate for HH ribozyme HCV-9065 which cleaves HCV RNA at nt. 9065.
XX KW Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
XX KW cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
XX KW autoimmune disease; ss.
XX OS Hepatitis C virus.
XX PN WO9955847-A2.
XX PD 04-NOV-1999.
XX PF 26-APR-1999; 99WO-US009027.
XX PR 27-APR-1998; 98US-0083217P.
XX PR 18-SEP-1998; 98US-0100842P.
XX PR 25-FEB-1999; 99US-00257608.
XX PR 23-MAR-1999; 99US-00274553.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Blatt L, Mcswiggen JA, Roberts E, Pavco PA, Macejak D;
XX DR WPI; 2000-062023/05.
XX PT Novel ribozymes for the treatment of diseases and conditions related to
XX PT hepatitis C infection.
XX PS Claim 1; Page 65; 123pp; English.
XX CC The present sequence represents the preferred target sequence of an
XX CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
XX CC the Hepatitis C virus (HCV) RNA sequence at the base position given in
XX CC the descriptor line. The HCV sequence was screened for optimal ribozyme
XX CC target sites using a computer folding algorithm and regions of the mRNA
XX CC which did not form secondary folding structures and contained potential
XX CC ribozyme cleavage sites were identified. Ribozymes were synthesised to
XX CC target these sites and their activities optimised by either varying the
XX CC length of the binding arms or by modification to prevent degradation by
XX CC nucleases. The ribozymes of the invention inhibit gene expression and/or
XX CC viral replication, and are used to treat diseases associated with
XX CC Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and
XX CC hepatocellular carcinoma. The ribozymes may be used in combination with
XX CC interferon to treat HCV infection, other infectious diseases, autoimmune
XX CC diseases, and cancer
XX SQ Sequence 15 BP; 5 A; 5 C; 3 G; 0 T; 2 U; 0 Other;

Query Match 0.6%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 92;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1146 ATGCCTCAGGAAA 1158
DB 2 AUGCCUCAGGAAA 14

RESULT 170
ABN80545
ID ABN80545 standard; DNA; 15 BP.
XX AC ABN80545;
XX AC ABN80545;
XX DT 19-JUL-2002 (first entry)
XX DT 19-JUL-2002 (first entry)

```

DE Human P450(cytochrome) oxidoreductase allele specific probe #11.  
 XX  
 KW Human; P450(cytochrome) oxidoreductase; POR; cancer; haplotype; SNP;  
 XX single nucleotide polymorphism; flavoprotein; enzyme; probe; ss.  
 KW  
 OS Homo sapiens.  
 XX  
 PN WO200226768-A2.  
 XX  
 PD 04-APR-2002.  
 XX  
 PF 01-OCT-2001; 2001WO-US030877.  
 XX  
 PR 29-SEP-2000; 2000US-0236449P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Kazemi A, Kliem SE, Lanz EM, Messer C, Tanguay DA;  
 XX WPI; 2002-394236/42.  
 DR  
 XX New genetic variants comprising haplotypes of the P450 (cytochrome)  
 PT oxidoreductase (POR) isogene, useful in improving the efficiency of drug  
 PT screening protocols for compounds targeting POR.  
 XX  
 PS Claim 14; Page 14; 14lpp; English.  
 XX  
 CC The present invention provides the protein, gene and cDNA sequences of  
 CC human P450(cytochrome) oxidoreductase POR, and single nucleotide  
 CC polymorphisms (SNPs) identified therein. The sequences can be used to  
 CC haplotype the POR gene of an individual, and to establish whether POR is  
 CC a suitable target for drugs to treat cancer and disorders associated with  
 CC impaired protein synthesis in cells. The present sequence is an allele  
 CC specific probe for the coding sequences of the invention  
 XX  
 SQ Sequence 15 BP; 4 A; 3 C; 5 G; 2 T; 0 U; 1 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 92;  
 Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 XX  
 QY 743 TGGAGACAGAGCTC 757  
 Db 1 TGGAGACAGAGCTC 15  
 |||||:|||||  
 RESULT 171  
 ABL45821/c  
 ID ABL45821 standard; DNA; 15 BP.  
 XX  
 AC ABL45821;  
 XX  
 DT 26-APR-2002 (first entry)  
 XX  
 DE Human EDG6 gene allele specific probe SEQ ID NO: 15.  
 XX  
 KW Human; endothelial differentiation, G-protein coupled receptor 6; EDG6;  
 KW haplotype; cancer; angiogenesis; inflammation; chromosome 19p13.3;  
 KW cytoskeletal; antiinflammatory; gene therapy; SNP;  
 KW single nucleotide polymorphism; probe; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200206446-A2.  
 XX  
 PD 24-JAN-2002.  
 XX  
 PF 17-JUL-2001; 2001WO-US022523.  
 XX  
 PR 17-JUL-2000; 2000US-0218727P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX

PI Kliem SE, Koshy B;  
 XX  
 DR WPI; 2002-171804/22.  
 XX  
 PT New genetic variants of endothelial differentiation, G-protein coupled  
 PT receptor-6 gene for studying expression, function of the gene and  
 PT expressing EDG6 protein for use in screening drugs to treat cancer,  
 PT inflammation.  
 XX  
 PS Claim 16; Page 13; 11lpp; English.  
 XX  
 CC The present invention provides the gene, protein and cDNA sequences of  
 CC the human endothelial differentiation, G-protein coupled receptor 6  
 CC (EDG6). Also identified are single nucleotide polymorphisms (SNPs) found  
 CC within the sequences. The sequences can be used in the identification of  
 CC the haplotype of an individual, and in the treatment of cancer.  
 CC angiogenesis and inflammation. The present sequence is an allele specific  
 CC probe for the EDG6 gene, which is found on chromosome 19p13.3  
 XX  
 SQ Sequence 15 BP; 1 A; 5 C; 4 G; 4 T; 0 U; 1 Other;  
 Query Match 0.6%; Score 13; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 92;  
 Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 XX  
 QY 578 GCAGCCTGAAGAGTG 592  
 Db 15 GCAGCCTGAAGAGTG 1  
 |||||:|||||  
 RESULT 172  
 ABX00704  
 ID ABX00704 standard; RNA; 15 BP.  
 XX  
 AC ABX00704;  
 XX  
 DT 23-DEC-2002 (first entry)  
 XX  
 DE Hepatitis C virus substrate #486 for HCV hammerhead ribozyme #486.  
 XX  
 KW Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;  
 KW HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide;  
 KW liver failure; hepatocellular carcinoma; HCV infection; drug therapy;  
 KW type I interferon; interferon alpha; interferon beta; cytostatic;  
 KW interferon gamma; consensus interferon; hepatotropic; antiinflammatory;  
 KW substrate; hammerhead ribozyme; HH ribozyme; ss.  
 XX  
 OS Hepatitis C virus.  
 XX  
 PN US2002082225-A1.  
 XX  
 PD 27-JUN-2002.  
 XX  
 PF 23-MAR-1999; 99US-00274553.  
 XX  
 PR 23-MAR-1999; 99US-00274553.  
 XX  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J A.  
 PA (ROBE/) ROBERTS B.  
 PA (PAVC/) PAVCO P A.  
 PA (MACE/) MACEJACK D.  
 XX  
 PI Blatt L, Mcswiggen JA, Roberts B, Pavco PA, Macejack D;  
 XX WPI; 2002-617759/66.  
 DR  
 XX New ribozymes targeting RNA derived from hepatitis C virus inhibit viral  
 PT replication and are useful to treat hepatitis C virus infections and  
 PT cirrhosis, liver failure or hepatocellular carcinoma.  
 XX  
 PS Claim 1; Page 35; 80pp; English.  
 XX

CC The present invention relates to enzymatic nucleic acids which  
CC specifically cleave RNA derived from Hepatitis C virus (HCV). The  
CC enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin  
CC (HP) motif where the binding arms comprise sequences complementary to one  
CC of the substrate sequences defined in the specification. The HCV  
CC ribozymes are useful for modulating the expression and/or replication of  
CC HCV. They can be used to treat cirrhosis, liver failure and/or  
CC hepatocellular carcinoma. The HCV ribozymes are also useful for treating  
CC a condition associated with HCV infection in conjunction with one or more  
CC other drug therapies, particularly type I interferon, especially  
CC interferon alpha, beta or gamma or consensus interferon. The present  
CC sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note:  
CC Some of the sequence data for this patent did not form part of the  
CC printed specification. The complete sequence data for this patent was  
CC obtained in electronic format directly from the USPTO web site at  
CC seqdata.uspto.gov/psipdsDEntry.html  
XX  
SQ Sequence 15 BP; 5 A; 5 C; 3 G; 0 T; 2 U; 0 Other;  
Query Match 0.6%; Score 13; DB 1; Length 15;  
Best Local Similarity 84.6%; Pred. No. 92;  
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 1146 ATGCTCAGGAAA 1158  
|:|||||  
Db 2 AUGCCUCAGGAAA 14  
RESULT 173  
AAT90604  
ID AAT90604 standard; RNA; 16 BP.  
XX  
AC AAT90604;  
XX  
DT 07-APR-1998 (first entry)  
XX  
DE Hepatitis C virus recognition sequence 14 for ribozyme cleavage.  
XX  
KW Recognition sequence; HCV; ribozyme; 5' untranslated region;  
KW nucleocapsid coding region; hairpin ribozyme; RNA cleavage; treatment;  
KW HCV infection; HCV contamination; ss.  
XX  
OS Hepatitis C virus.  
XX  
FH Key Location/Qualifiers  
FT misc\_feature 1..4  
FT /\*tag= a  
FT /note= "complementary to the CR12 ribozyme"  
FT 6  
FT misc\_feature /\*tag= b  
FT /note= "cleavage site corresponding to position 2469 of  
FT the (+) strand, counting from 5' end"  
FT 9..16  
FT misc\_feature /\*tag= c  
FT /note= "complementary to the CR12 ribozyme"  
XX  
PN WO9732018-A2.  
XX  
PD 04-SEP-1997.  
XX  
PF 27-FEB-1997; 97WO-US003304.  
XX  
PR 29-FEB-1996; 96US-00608862.  
XX  
PA (IMMU-) IMMUSOL INC.  
XX  
PI Barber JR, Welch PJ, Tritz R, Yei S, Yu M;  
XX WPI; 1997-470461/43.  
XX  
DR Ribozyme(s) directed against hepatitis C virus - for prevention and  
PT treatment of viral infection, and detection of HCV contamination of  
PT blood.

XX Example 1; Page 17; 98pp; English.  
PS  
XX AAT90591-620 represent recognition sequences found in the positive (+)  
CC strand of the Hepatitis C virus (HCV) RNA. The sequences are recognised  
CC by novel ribozymes which inhibit replication, infectivity or gene  
CC expression of HCV. The present invention is located within the NS1 gene.  
CC Hairpin ribozymes of the present invention were designed based on  
CC sequences adjacent to the GUC sequence recognition feature. The ribozymes  
CC are directed against conserved regions of the genome and so should be  
CC active against many strains of HCV. The ribozymes, when optionally  
CC expressed from a vector, cleave the RNA of HCV and so are useful for  
CC treatment and prevention of HCV infection. They can also be used to  
CC detect HCV contamination of blood or for clinical diagnosis  
XX  
SQ Sequence 16 BP; 3 A; 2 C; 7 G; 0 T; 4 U; 0 Other;  
Query Match 0.6%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 68.8%; Pred. No. 1e+02;  
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
QY 1314 AAAGGCTGTGCGGTG 1329  
|:|||||  
Db 1 AUAGGCGUCAGCGUUG 16  
RESULT 174  
AAZ97721  
ID AAZ97721 standard; DNA; 16 BP.  
XX  
AC AAZ97721;  
XX  
DT 15-SEP-2003 (revised)  
DT 26-APR-2000 (first entry)  
XX  
DE HIV-1 protease gene probe SEQ ID NO:211.  
XX  
KW Human immunodeficiency virus; HIV; protease; probe; detection;  
KW drug selected mutation; hybridisation; genotyping; infection;  
KW drug resistance; ss.  
XX  
OS Human immunodeficiency virus 1.  
XX  
PN WO9967428-A2.  
XX  
PD 29-DEC-1999.  
XX  
PF 22-JUN-1999; 99WO-EP004317.  
XX  
PR 24-JUN-1998; 98EP-00870143.  
XX  
PA (INNO-) INNOGENETICS NV.  
XX  
PI Stuyver L;  
XX  
DR WPI; 2000-147219/13.  
XX  
PD Detection of drug-selected mutations in the HIV protease gene used to  
PT treat HIV infections.  
XX  
PS Claim 3; Page 37; 76pp; English.  
XX  
CC The present invention describes the detection of drug-selected mutations  
CC in the HIV protease gene. The method of detection allows the simultaneous  
CC characterisation of a range of codons involved in drug resistance using  
CC sets of probes optimised to function together in a reverse-hybridisation  
CC assay. AAZ97517 to AAZ97997 represent specifically claimed probes for use  
CC in the assay, and AAZ97479 to AAZ97501 represent specifically claimed HIV  
CC protease gene polymorphic nucleotide sequences. AAZ97502 to AAZ97515, and  
CC AAZ98004 to AAZ98007, represent PCR primers for the HIV protease gene,  
CC and AAZ97516 represents an HIV protease probe used in an example from the  
CC present invention. The method, probes and primers can be used for the  
CC detection of drug-selected mutations in the HIV protease gene. The method

CC allows the simultaneous characterisation of a range of codons involved in  
 CC drug resistance. The method may also be used for HIV protease genotyping  
 CC assays. The probes are able to discriminate between wild type and mutated  
 CC protease sequences. The method allows rapid and reliable detection of  
 CC drug-selected mutation in HIV. (Updated on 15-SEP-2003 to standardise OS  
 CC field)  
 CC XX  
 CC SQ Sequence 16 BP; 6 A; 1 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 0.6%; Score 12.8; DB 1; Length 16;  
 Best Local Similarity 87.5%; Pred. NO. 1e+02;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1452 AGTTTATTAACACTA 1467  
 |||||  
 DB 1 AGGTTTATCAAGTA 16

RESULT 175  
 AAL13421  
 ID AAL13421 standard; RNA; 16 BP.  
 XX  
 AC AAL13421;  
 XX  
 DT 17-JUL-2000 (first entry)  
 XX  
 DE Hepatitis C virus hairpin ribozyme recognition sequence SEQ ID NO:21.  
 XX  
 KW Hepatitis C virus; HCV; hairpin ribozyme; cleavage; recognition site;  
 KW infection; virucide; hepatotropic; antiinflammatory;  
 KW replication inhibitor; gene expression inhibitor; ss.  
 XX  
 OS Hepatitis C virus.  
 XX  
 PN US6043077-A.  
 XX  
 PD 28-MAR-2000.  
 XX  
 PF 20-OCT-1997; 97US-00954210.  
 XX  
 PR 29-FEB-1996; 97US-00608862.  
 PR 27-FEB-1997; 97WO-US003304.  
 XX  
 PA (IMMU-) IMMUSOL INC.

XX Tritz R, Yei S, Yu M, Barber JR, Welch PJ;  
 XX WPI; 2000-270342/23.  
 XX  
 XX Ribozyme capable of inhibiting replication, infectivity or gene  
 PT expression of hepatitis C virus, useful for treating or preventing  
 PT hepatitis C virus infection.  
 XX  
 XX Example 1; Col 12; 57pp; English.  
 XX  
 XX The present invention describes ribozymes (I) capable of inhibiting  
 CC replication, infectivity or gene expression of a hepatitis C virus (HCV),  
 CC directed to target sequences AAL13438 to AAL13444, AAL13454 and AAL13465.  
 CC (I) have virucide, hepatotropic and antiinflammatory activities. (I), or  
 CC vectors comprising nucleotide sequences encoding (I), are useful for  
 CC interfering with the replication or gene expression of HCV in a human  
 CC cells. (I) are useful for diagnosis, prevention and treatment of HCV  
 CC infection or disease in mammals especially humans. Nucleotide sequences  
 CC encoding (I) are useful for preventing hepatitis C viral infection in a  
 CC cell. AAL13401 to AAL13405 represent examples of the briefest  
 CC requirements for hairpin ribozyme; AAL13406 and AAL13407 represent PCR  
 CC primers used in the amplification of the HCV capsid sequence; AAL13408 to  
 CC AAL13467 represent HCV hairpin ribozyme recognition sites; and AAL13468  
 CC to AAL13473 represent oligonucleotides used in the construction of HCV  
 CC hairpin ribozymes, all these sequences are used in the exemplification of  
 CC the present invention

XX Sequence 16 BP; 3 A; 2 C; 7 G; 0 T; 4 U; 0 Other;  
 XX SQ

Query Match 0.6%; Score 12.8; DB 1; Length 16;  
 Best Local Similarity 68.8%; Pred. NO. 1e+02; 3; Mismatches 2; Indels 0; Gaps 0;  
 Matches 11; Conservative

QY 1314 AAAGGCTCTGCGGTG 1329  
 |||||  
 DB 1 AUAGGGUCAGCGGUG 16

RESULT 176  
 ABK40647/C  
 ID ABK40647 standard; DNA; 16 BP.

XX AC ABK40647;  
 XX  
 DT 21-MAY-2002 (first entry)

XX Human betal-adrenoceptor antisense oligonucleotide #69.  
 XX  
 KW ss; antisense; betal adrenoceptor; betal-AR; vasotropic; hypotensive;  
 KW cardiant; hypertension; hypertrophy; cardiac ischaemia;  
 KW cardiovascular disease; cardiac dysfunction.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200204623-A2.  
 XX  
 PD 17-JAN-2002.  
 XX  
 PF 11-JUL-2001; 2001WO-US021759.  
 XX  
 PR 11-JUL-2000; 2000US-00614034.  
 XX  
 PA (JYFL) UNIV FLORIDA.  
 XX  
 PI Phillips MI, Zhang Y;  
 XX  
 DR WPI; 2002-164644/21.

XX Novel antisense oligonucleotides that specifically bind to mRNA encoding  
 PT beta 1-adrenoceptor polypeptide, useful for treating cardiac  
 PT dysfunction, hypertension, hypertrophy and other cardiovascular diseases  
 PT in humans.  
 XX  
 XX Claim 48; Page 19; 186pp; English.  
 XX  
 XX The invention relates to an isolated antisense oligonucleotide of 9-35  
 CC nucleotides in length, which specifically binds to a portion of an mRNA  
 CC expressed from a gene encoding a mammalian betal-adrenoceptor (AR)  
 CC polypeptide and alters the translation of the mRNA into the betal-AR  
 CC polypeptide in a host cell expressing the mRNA. Also included are a  
 CC recombinant vector comprising the antisense oligonucleotide, and a host  
 CC cell comprising the vector. A composition comprising the antisense  
 CC oligonucleotides is useful in the manufacture of a medicament for use in  
 CC treating or ameliorating hypertension, hypertrophy and cardiac ischaemia  
 CC in a mammal. A composition comprising the antisense oligonucleotides is  
 CC also useful for reducing the level of betal-AR polypeptide, the  
 CC transcription of betal-AR polypeptide-specific mRNA in a mammalian host  
 CC cell, particularly human cell, and for decreasing blood pressure in a  
 CC mammal, where the antisense oligonucleotide is operably linked to a  
 CC promoter capable of expressing the oligonucleotide in the cell. A  
 CC composition comprising a selected nucleic acid segment that comprises a  
 CC polynucleotide operatively linked to a promoter capable of expressing the  
 CC full-length, or is a full length betal-adrenoceptor antisense  
 CC oligonucleotide in a cell is also useful for reducing the level of betal-1-  
 CC adrenoceptor polypeptide in a mammalian host cell. The antisense  
 CC oligonucleotide is also useful for other cardiovascular diseases and  
 CC cardiac dysfunction in humans. The present sequence is a betal-AR mRNA  
 CC targeting antisense oligonucleotide of the invention

XX Sequence 16 BP; 2 A; 7 C; 5 G; 2 T; 0 U; 0 Other;









```

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 39943; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABK00010-ABK82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 2 A; 0 C; 1 G; 9 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1156 AAATACAAATTA 1168
DB 13 AAATACAAATTA 1
XX
RESULT 185
ABH31369
ID ABH31369 standard; DNA; 13 BP.
XX
XX ABH31369;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 231346 for detecting SNP TSC0056414.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX Claim 1; SEQ ID NO 189181; 29pp + Sequence Listing; German.

```

```

PR 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 231346; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABK00010-ABK82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 8 A; 1 C; 0 G; 3 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1160 AACAAATATAAATT 1172
DB 1 RACAAATATAAATT 13
XX
RESULT 186
ABF89184/c
ID ABF89184 standard; DNA; 13 BP.
XX
XX ABF89184;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 189181 for detecting SNP TSC0046569.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 189181; 29pp + Sequence Listing; German.

```

```

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 13 BP; 3 A; 0 C; 2 G; 7 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1431 GAATATATAACAC 1443
XX DB 13 RAATATATAACAC 1
XX
XX RESULT 187
XX ID ABF51059 standard; DNA; 13 BP.
XX AC ABF51059;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 151056 for detecting SNP TSC0038138.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 151056; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 13 BP; 3 A; 0 C; 2 G; 7 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1431 GAATATATAACAC 1443
XX DB 13 RAATATATAACAC 1
XX
XX RESULT 188
XX ID ABF51059 standard; DNA; 13 BP.
XX AC ABH28233;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 228210 for detecting SNP TSC0055644.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 228210; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 13 BP; 3 A; 0 C; 2 G; 7 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1155 GAATATATAACAAATA 1167
XX DB 1 RAATATATAACAAATA 13
XX
XX RESULT 189

```

```

XX SQ Sequence 13 BP; 2 A; 4 C; 0 G; 6 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1104 ACTCTTCTACATT 1116
XX DB 1 RCTCTTCTACATT 13
XX
XX RESULT 188
XX ID ABH28233 standard; DNA; 13 BP.
XX AC ABH28233;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 228210 for detecting SNP TSC0055644.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 228210; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX SQ Sequence 13 BP; 9 A; 1 C; 0 G; 2 T; 0 U; 1 Other;
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
XX Best Local Similarity 92.3%; Pred. No. 99;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1155 GAATATATAACAAATA 1167
XX DB 1 RAATATATAACAAATA 13
XX
XX RESULT 189

```

```

ABF62626
ID ABF62626 standard; DNA; 13 BP.
XX AC ABF62626;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 162623 for detecting SNP TSC0040908.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WIPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 162623; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 3 A; 0 C; 2 G; 7 T; 0 U; 1 Other;
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 99;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1117 TTATTATGGATTC 1129
DB 1 TTATTATGGATTY 13
RESULT 190
ABH57534
ID ABH57534 standard; DNA; 13 BP.
XX AC ABH57534;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 257511 for detecting SNP TSC0005086.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;

```

```

OS Homo sapiens.
XX WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WIPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 257511; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 2 A; 0 C; 2 G; 8 T; 0 U; 1 Other;
XX Query Match 0.6%; Score 12.6; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 99;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1445 TATGTTAGTTT 1457
DB 1 TATGTTAGTTT 13
RESULT 191
ABH57535/C
ID ABH57535 standard; DNA; 13 BP.
XX AC ABH57535;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 257512 for detecting SNP TSC0005086.
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;

```

XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 257512; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 8 A; 2 C; 0 G; 2 T; 0 U; 1 Other;  
SQ  
Query Match 0.6%; Score 12.6; DB 1; Length 13;  
Best Local Similarity 92.3%; Pred. No. 99;  
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1445 TAGTTTGTAGTTT 1457  
Db 13 TAGTTTGTAGTTT 1  
RESULT 192  
ABH59877  
ID ABH59877 standard; DNA; 13 BP.  
XX  
XX ABH59877;  
AC  
XX 22-FEB-2002 (first entry)  
DT  
XX  
XX Oligonucleotide SEQ ID NO 259854 for detecting SNP TSC0009042.  
DE  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200177384-A2.  
FN  
XX  
XX 18-OCT-2001.  
PD  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
PF  
XX  
XX 07-APR-2000; 2000DE-01019173.  
PR  
XX  
XX (EPIG-) EPIGENOMICS AG.  
PA  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
PI  
XX  
XX WPI; 2001-657177/75.  
DR  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 259854; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 5 A; 3 C; 0 G; 4 T; 0 U; 1 Other;  
SQ  
Query Match 0.6%; Score 12.6; DB 1; Length 13;  
Best Local Similarity 92.3%; Pred. No. 99;  
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 761 ATACCACCTATAAT 773  
Db 1 RTACCACCTATAAT 13  
RESULT 193  
ABF11960/C  
ID ABF11960 standard; DNA; 13 BP.  
XX  
XX ABF11960;  
AC  
XX  
XX 21-FEB-2002 (first entry)  
DT  
XX  
XX Oligonucleotide SEQ ID NO 111957 for detecting SNP TSC0027944.  
DE  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200177384-A2.  
FN  
XX  
XX 18-OCT-2001.  
PD  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
PF  
XX  
XX 07-APR-2000; 2000DE-01019173.  
PR  
XX  
XX (EPIG-) EPIGENOMICS AG.  
PA  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
PI  
XX  
XX WPI; 2001-657177/75.  
DR  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 111957; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 2 A; 0 C; 1 G; 9 T; 0 U; 1 Other;  
SQ  
Query Match 0.6%; Score 12.6; DB 1; Length 13;  
Best Local Similarity 92.3%; Pred. No. 99;

Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1158 ATACAAATATAA 1170  
 Db 13 RTACAAATATAA 1

RESULT 194  
 ABH28232/C  
 ID ABH28232 standard; DNA; 13 BP.  
 XX AC ABH28232;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 228209 for detecting SNP TSC0055644.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 228209; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 13 BP; 2 A; 0 C; 1 G; 9 T; 0 U; 1 Other;  
 Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1155 GAATAACAAATA 1167  
 Db 13 RAATAACAAATA 1

RESULT 195  
 ABF62627/C  
 ID ABF62627 standard; DNA; 13 BP.  
 XX AC ABF62627;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 241442 for detecting SNP TSC0007988.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.

DT 22-FEB-2002 (first entry)  
 XX Oligonucleotide SEQ ID NO 162624 for detecting SNP TSC0040908.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PF 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIG-) EPIGENOMICS AG.  
 XX PI Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 162624; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 13 BP; 7 A; 2 C; 0 G; 3 T; 0 U; 1 Other;  
 Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1117 TTATTATGGATTC 1129  
 Db 13 TTATTATGGATTY 1

RESULT 196  
 ABH41465/C  
 ID ABH41465 standard; DNA; 13 BP.  
 XX AC ABH41465;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 241442 for detecting SNP TSC0007988.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.



XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 241442; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and AB10010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 13 BP; 5 A; 1 C; 0 G; 6 T; 0 U; 1 Other;  
 XX Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 XX Best Local Similarity 92.3%; Pred. No. 99;  
 XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 QY 1456 TTTATATAAGTAT 1468  
 DB 13 TTTATATAAGTAT 1  
 RESULT 197  
 ABC71778/C  
 ID ABC71778 standard; DNA; 13 BP.  
 AC ABC71778;  
 XX 21-FEB-2002 (first entry)  
 XX Oligonucleotide SEQ ID NO 71795 for detecting SNP TSC0018570.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

PT methylation status.  
 XX Claim 1; SEQ ID NO 71795; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and AB10010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 13 BP; 2 A; 0 C; 2 G; 8 T; 0 U; 1 Other;  
 XX Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 XX Best Local Similarity 92.3%; Pred. No. 99;  
 XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 QY 1252 AATTCACAAAAA 1264  
 DB 13 RAATTCACAAAAA 1  
 RESULT 198  
 ABH41464  
 ID ABH41464 standard; DNA; 13 BP.  
 AC ABH41464;  
 XX 22-FEB-2002 (first entry)  
 XX Oligonucleotide SEQ ID NO 241441 for detecting SNP TSC0007988.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 241441; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and AB10010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 6 A; 0 C; 1 G; 5 T; 0 U; 1 Other;  
 Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1456 TTTATAAAGTAT 1468  
 |||||  
 Db 1 TTTATAAAGTAY 13

RESULT 199  
 ABH31368/c  
 ID ABH31368 standard; DNA; 13 BP.

XX  
 AC ABH31368;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 231345 for detecting SNP TSC0056414.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

XX Claim 1; SEQ ID NO 231345; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 3 A; 0 C; 1 G; 8 T; 0 U; 1 Other;

Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1160 AACAAATAAAATT 1172

Db 13 RACAAATAAAATT 1

RESULT 200

ABF11961

ID ABF11961 standard; DNA; 13 BP.

XX  
 AC ABF11961;

XX 21-FEB-2002 (first entry)

XX Oligonucleotide SEQ ID NO 111958 for detecting SNP TSC0027944.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

XX Claim 1; SEQ ID NO 111958; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 9 A; 1 C; 0 G; 2 T; 0 U; 1 Other;

Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1158 ATAACAAATAAAA 1170  
 :|||||  
 Db 1 RTAACAAATAAAA 13

RESULT 201

ABC71779

ID ABC71779 standard; DNA; 13 BP.

XX  
 AC ABC71779;

XX 21-FEB-2002 (first entry)

XX Oligonucleotide SEQ ID NO 71796 for detecting SNP TSC0018570.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;



CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 XX  
 SQ Sequence 13 BP; 8 A; 2 C; 0 G; 2 T; 0 U; 1 Other;

Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 QY 1446 ATGTTTAGTTTT 1458  
 DB 13 ATGTTTAGTTTT 1

RESULT 204  
 ABF89185  
 ID ABF89185 standard; DNA; 13 BP.  
 AC ABF89185;  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 189182 for detecting SNP TSC0046569.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 KW  
 XX Homo sapiens.  
 OS  
 XX WO200177384-A2.

XX 18-OCT-2001.  
 XX  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX  
 XX 07-APR-2000; 2000DE-01019173.  
 XX  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX  
 XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

XX Claim 1; SEQ ID NO 189182; 29pp + Sequence Listing; German.  
 XX  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 13 BP; 7 A; 2 C; 0 G; 3 T; 0 U; 1 Other;

Query Match 0.6%; Score 12.6; DB 1; Length 13;  
 Best Local Similarity 92.3%; Pred. No. 99;  
 Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 QY 1431 GATATATATACAC 1443  
 DB 1 RAATATATATACAC 13

RESULT 205  
 AAS98725  
 ID AAS98725 standard; DNA; 15 BP.  
 AC AAS98725;  
 DT 26-MAR-2002 (first entry)  
 XX  
 DE Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #91.

XX Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;  
 KW cytostatic; gene therapy; malignant histiocytosis; isogene;  
 KW myeloid malignancy; inflammatory disorder; transgenic animal; haplotype;  
 KW genotype; human; allele specific oligonucleotide; ASO; primer; ss.  
 XX  
 OS Homo sapiens.

XX WO200179225-A2.  
 XX  
 XX 25-OCT-2001.  
 XX  
 XX 12-APR-2001; 2001WO-US012044.  
 XX  
 XX 12-APR-2000; 2000US-0196411P.  
 XX (GENA-) GENA/SSANCE PHARM INC.  
 XX  
 XX Chew A, Choi JY, Koshy B;

XX WPI; 2002-075058/10.  
 XX  
 XX Novel polymorphic variants of colony stimulating factor 1 receptor useful  
 PT in studying expression and function of the protein, useful for screening  
 PT candidate drugs to treat diseases e.g. inflammatory disorders.

XX Claim 15; Page 16; 164pp; English.

XX The invention describes a novel isolated polynucleotide (I) comprising a  
 CC sequence which is a polymorphic variant (PV) of a reference sequence for  
 CC colony stimulating factor 1 receptor (CSF1R) gene, found on the  
 CC polypeptide are useful for improving the discovery and development of  
 CC drugs for treating diseases associated with CSF1R activity, e.g.,  
 CC malignant histiocytosis, myeloid malignancies, and inflammatory disorders  
 CC and the haplotypes can be used to validate CSF1R as a candidate target  
 CC for treating a specific condition or disease predicted to be associated  
 CC with CSF1R activity. Genotyping the CSF1R gene of an individual can also  
 CC be used in developing diagnostic tests and therapeutic treatments. (I) is  
 CC useful in studying the expression and function of CSF1R, and in  
 CC expressing CSF1R protein for use in screening for candidate drugs to  
 CC treat diseases related to CSF1R activity and in studying the effect of  
 CC the variation on the biological activity of CSF1R as well as on the  
 CC binding affinity of candidate drugs targeting CSF1R. Antibodies are  
 CC useful in a variety of diagnostic and prognostic formats and therapeutic  
 CC methods. A transgenic animal is useful in studying expression of the  
 CC CSF1R isogenes in vivo, for in vivo screening and testing of drugs  
 CC targeted against CSF1R protein, and for testing the efficacy of  
 CC therapeutic agents and compounds. Allele specific oligonucleotides (ASO)  
 CC are useful as probes and primers, and for assaying a polymorphism in the  
 CC target region. Without requiring any a priori knowledge of the phenotypic  
 CC effect of any particular CSF1R or haplotype the invention provides a  
 CC method for identifying lead compounds that are more likely to show  
 CC efficacy in clinical trials. This sequence is an allele specific  
 CC oligonucleotide primer used for detecting CSF1R gene polymorphisms,

CC described in the method of the invention  
XX Sequence 15 BP; 4 A; 2 C; 6 G; 2 T; 0 U; 1 Other;  
SQ Query Match 0.6%; Score 12.6; DB 1; Length 15;  
Best Local Similarity 92.3%; Pred. No. 1.1e+02;  
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 581 GCCTGAAGAGTGG 593  
DB 3 GCCTGAAGAGTRG 15  
XX AAL61360  
AC AAL61360;  
XX 22-SEP-2003 (first entry)  
XX Human FXR antisense oligonucleotide, ISIS 145307.  
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
KW RIP14; antisense; ss.  
XX Homo sapiens.  
OS Synthetic.  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone; All cytidines are 5-  
FT methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX WO2003044167-A2.  
XX 30-MAY-2003.  
XX 13-NOV-2002; 2002WO-US036691.  
XX 15-NOV-2001; 2001US-00002491.  
XX (ISIS-) ISIS PHARM INC.  
XX Monia BP, Watt AT;  
XX WPI; 2003-468767/44.  
XX New antisense oligonucleotides for modulating human farnesoid X receptor  
PT (FXR) expression useful for treating conditions associated with FXR in  
PT humans, e.g. cardiovascular disease, atherosclerosis or  
PT hypercholesterolemia.  
XX Claim 3; Page 74; 127pp; English.  
XX The invention relates to antisense compounds, compositions and methods  
CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
CC inhibiting the expression of human FXR in cells or tissues. It is  
CC particularly useful for treating or preventing a disease or condition

CC associated with FXR in a human, e.g. cardiovascular disease,  
CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
CC useful for diagnostics, therapeutics, prophylaxis, or as research  
CC reagents or kits. It is also used in gene therapy. The present sequence  
CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
CC is used to illustrate the method of the invention  
XX Sequence 20 BP; 2 A; 8 C; 3 G; 7 T; 0 U; 0 Other;  
SQ Query Match 0.6%; Score 12.2; DB 1; Length 20;  
Best Local Similarity 82.4%; Pred. No. 1.4e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 23 ACCTCATGTCTCCCG 39  
DB 4 ACCTCAGTTTCTCCGTG 20  
XX AAL61335  
AC AAL61335;  
XX 22-SEP-2003 (first entry)  
XX Human FXR antisense oligonucleotide, ISIS 126487.  
XX Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
KW atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
KW retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
KW RIP14; antisense; ss.  
XX Homo sapiens.  
OS Synthetic.  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone; All cytidines are 5-  
FT methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX WO2003044167-A2.  
XX 30-MAY-2003.  
XX 13-NOV-2002; 2002WO-US036691.  
XX 15-NOV-2001; 2001US-00002491.  
XX (ISIS-) ISIS PHARM INC.  
XX Monia BP, Watt AT;  
XX WPI; 2003-468767/44.  
XX New antisense oligonucleotides for modulating human farnesoid X receptor  
PT (FXR) expression, useful for treating conditions associated with FXR in  
PT humans, e.g. cardiovascular disease, atherosclerosis or  
PT hypercholesterolemia.  
XX Claim 3; Page 73; 127pp; English.  
XX The invention relates to antisense compounds, compositions and methods

CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX  
 SQ Sequence 20 BP; 6 A; 3 C; 3 G; 8 T; 0 U; 0 Other;  
 Query Match 0.5%; Score 12; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1196 AGAAATTTTCT 1207  
 |||||  
 4 AGAAATTTTCT 15

Db AAL61331 standard; DNA; 20 BP.  
 AAL61331;  
 22-SEP-2003 (first entry)  
 Human FXR antisense oligonucleotide, ISIS 126474.  
 Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 RIP14; antisense; ss.  
 Homo sapiens.  
 Synthetic.  
 Key Location/Qualifiers  
 modified\_base 1..20 /\*tag= a  
 /mod\_base= OTHER  
 /note= "Phosphorothioate backbone; All cytidines are 5-  
 methylcytidines"  
 modified\_base 1..5 /\*tag= b  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"  
 modified\_base 16..20 /\*tag= c  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"  
 WO2003044167-A2.  
 30-MAY-2003.  
 13-NOV-2002; 2002WO-US036691.  
 15-NOV-2001; 2001US-00002491.  
 (ISIS-) ISIS PHARM INC.  
 Monia BP, Watt AT;  
 WPI; 2003-468767/44.  
 New antisense oligonucleotides for modulating human farnesoid X receptor  
 (FXR) expression, useful for treating conditions associated with FXR in  
 humans, e.g. cardiovascular disease, atherosclerosis or

PT hypercholesterolemia.  
 PS Claim 3; Page 73; 127pp; English.  
 CC The invention relates to antisense compounds, compositions and methods  
 CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
 CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
 CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
 CC inhibiting the expression of human FXR in cells or tissues. It is  
 CC particularly useful for treating or preventing a disease or condition  
 CC associated with FXR in a human, e.g. cardiovascular disease,  
 CC atherosclerosis or hypercholesterolaemia. The antisense compound is  
 CC useful for diagnostics, therapeutics, prophylaxis, or as research  
 CC reagents or kits. It is also used in gene therapy. The present sequence  
 CC is an antisense oligonucleotide targeted to human FXR DNA. This sequence  
 CC is used to illustrate the method of the invention

XX  
 SQ Sequence 20 BP; 5 A; 9 C; 1 G; 5 T; 0 U; 0 Other;  
 Query Match 0.5%; Score 11.6; DB 1; Length 20;  
 Best Local Similarity 77.8%; Pred. No. 1.7e+02;  
 Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 374 CATTGACATTCCTT 391  
 |||||  
 1 CAGCCACATTCCTT 18

Db AAL61332 standard; DNA; 20 BP.  
 AAL61332;  
 22-SEP-2003 (first entry)  
 Human FXR antisense oligonucleotide, ISIS 126476.  
 Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
 atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR;  
 retinoid X receptor-interacting protein 14; phosphorothioate backbone;  
 RIP14; antisense; ss.  
 Homo sapiens.  
 Synthetic.  
 Key Location/Qualifiers  
 modified\_base 1..20 /\*tag= a  
 /mod\_base= OTHER  
 /note= "Phosphorothioate backbone; All cytidines are 5-  
 methylcytidines"  
 modified\_base 1..5 /\*tag= b  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"  
 modified\_base 16..20 /\*tag= c  
 /mod\_base= OTHER  
 /note= "2'methoxyethyl nucleotides"  
 WO2003044167-A2.  
 30-MAY-2003.  
 13-NOV-2002; 2002WO-US036691.  
 15-NOV-2001; 2001US-00002491.  
 (ISIS-) ISIS PHARM INC.  
 Monia BP, Watt AT;  
 WPI; 2003-468767/44.

DR WPI; 2003-468767/44.  
XX New antisense oligonucleotides for modulating human farnesoid X receptor  
PT (FXR) expression, useful for treating conditions associated with FXR in  
PT humans, e.g. cardiovascular disease, atherosclerosis or  
PT hypercholesterolemia.  
XX  
PS Claim 3; Page 73; 127pp; English.  
XX  
CC The invention relates to antisense compounds, compositions and methods  
CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)  
CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
CC inhibiting the expression of human FXR in cells or tissues. It is  
CC particularly useful for treating or preventing a disease or condition  
CC associated with FXR in a human, e.g. cardiovascular disease,  
CC atherosclerosis or hypercholesterolemia. The antisense compound is  
CC useful for diagnostics, therapeutics, prophylaxis, or as research  
CC reagents or kits. It is also used in gene therapy. The present sequence  
CC is an antisense oligonucleotide targetted to human FXR DNA. This sequence  
CC is used to illustrate the method of the invention  
XX  
SQ Sequence 20 BP; 6 A; 3 C; 2 G; 9 T; 0 U; 0 Other;

Query Match 0.5%; Score 11.6; DB 1; Length 20;  
Best Local Similarity 77.8%; Pred. No. 1.7e+02;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 943 TGTAACTGAAATTCAGT 960  
Db 1 TTTACACTGAATTCAGT 18

RESULT 210  
AAL61320/c  
ID AAL61320 standard; DNA; 27 BP.  
XX  
AC AAL61320;  
XX  
DT 22-SEP-2003 (first entry)  
XX  
DE Human farnesoid X receptor (FXR) DNA specific forward PCR primer.  
XX  
KW Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy;  
KW atherosclerosis; hypercholesterolemia; NR1H4; bile acid receptor; BAR;  
KW retinoid X receptor-interacting protein 14; RIP14; PCR; primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003044167-A2.  
XX  
PD 30-MAY-2003.  
XX  
PF 13-NOV-2002; 2002WO-US036691.  
XX  
PR 15-NOV-2001; 2001US-00002491.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Monia BP, Watt AT;  
XX  
DR WPI; 2003-468767/44.  
XX  
XX New antisense oligonucleotides for modulating human farnesoid X receptor  
PT (FXR) expression, useful for treating conditions associated with FXR in  
PT humans, e.g. cardiovascular disease, atherosclerosis or  
PT hypercholesterolemia.  
XX  
PS Example 13; Page 71; 127pp; English.  
XX  
CC The invention relates to antisense compounds, compositions and methods  
CC for modulating the expression of human farnesoid X receptor (FXR). FXR is  
CC also known as NR1H4, retinoid X receptor-interacting protein 14 (RIP14)

CC and bile acid receptor (BAR). The antisense oligonucleotide is useful for  
CC inhibiting the expression of human FXR in cells or tissues. It is  
CC particularly useful for treating or preventing a disease or condition  
CC associated with FXR in a human, e.g. cardiovascular disease,  
CC atherosclerosis or hypercholesterolemia. The antisense compound is  
CC useful for diagnostics, therapeutics, prophylaxis, or as research  
CC reagents or kits. It is also used in gene therapy. The present sequence  
CC is human FXR DNA specific PCR primer. This sequence is used in the  
CC exemplification of the invention  
XX

SQ Sequence 27 BP; 11 A; 4 C; 6 G; 6 T; 0 U; 0 Other;  
Query Match 0.5%; Score 11.6; DB 1; Length 27;  
Best Local Similarity 65.4%; Pred. No. 1.7e+02;  
Matches 17; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 240 TCTCTTAGTTTCCTGGATTTCTCTG 265  
Db 27 TTTCTCAGTCGCTTAGATTTACACTG 2

Search completed: April 8, 2004, 15:22:29  
Job time : 6 secs